


STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER Ute Tribal 01-13-E4					
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT BRUNDAGE CANYON					
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME					
6. NAME OF OPERATOR PETROGLYPH OPERATING CO						7. OPERATOR PHONE 208 685-7685					
8. ADDRESS OF OPERATOR 960 Broadway Avenue, Ste 500, Bosie, ID, 83703						9. OPERATOR E-MAIL ppowell@pgei.com					
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) 14-20-H62-4743				11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>					
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Petroglyph Operating Co., Inc.						14. SURFACE OWNER PHONE (if box 12 = 'fee') 435-722-2531					
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') P.O. Box 607, ,						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')					
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') Ute Indian Tribe				18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>		19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>					
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP		RANGE	MERIDIAN		
LOCATION AT SURFACE		554 FSL 1526 FWL		SESW	1	5.0 S		4.0 W	U		
Top of Uppermost Producing Zone		660 FSL 660 FWL		SWSW	1	5.0 S		4.0 W	U		
At Total Depth		660 FSL 660 FWL		SWSW	1	5.0 S		4.0 W	U		
21. COUNTY DUCHESNE				22. DISTANCE TO NEAREST LEASE LINE (Feet) 554		23. NUMBER OF ACRES IN DRILLING UNIT 707					
				25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1722		26. PROPOSED DEPTH MD: 6212 TVD: 6119					
27. ELEVATION - GROUND LEVEL 6025				28. BOND NUMBER LPM4138153		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8342					
Hole, Casing, and Cement Information											
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight	
Cond	20	14	0 - 54	5.0	Unknown	10.0	Class G	25	1.17	15.8	
Surf	12.25	8.625	0 - 494	24.0	J-55 ST&C	10.0	Class G	227	1.17	15.8	
Prod	7.875	5.5	0 - 6212	15.5	J-55 LT&C	10.0	Class G	468	1.92	12.5	
							Class G	343	1.46	13.4	
ATTACHMENTS											
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES											
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN						
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER						
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP						
NAME Ed Trotter				TITLE Agent			PHONE 435 789-4120				
SIGNATURE				DATE 10/30/2012			EMAIL edtrotter@easilink.com				
API NUMBER ASSIGNED 43013518190000				APPROVAL <div style="text-align: center;">  Permit Manager </div>							

CONFIDENTIAL
NINE POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
UTE TRIBAL 01-13-E4
SWSW, SEC 1, T5S, R4W
DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Formation		Subsea	TVD	MD
Rig KB=~14' above GGL		6039	0	0
Surface Formation = Uinta				
Uinta		6025	14	14
Green River		4760	1279	1282
Trona		3430	2609	2648
Mahogany Shale		3275	2764	2808
"B" Marker	Waterflood Unit Interval	2130	3909	3988
"X" Marker		1635	4404	4494
Douglas Creek Marker		1495	4544	4635
"B" Limestone		1090	4949	5042
Base Castle Peak Limestone		560	5479	5572
BSCARB		155	5884	5977
Wasatch		-100	NDE	NDE
Rig TD		-80	6119	6212

2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS:

Substance	Formation	Subsea	TVD	MD
Base of moderately saline ground water*	Uinta	5950	89	89
Oil/Gas	Douglas Creek	1495	4544	4635
Oil/Gas	Castle Peak	560	5479	5572

Any water encountered during drilling shall be sampled, analyzed and reported to BLM, Vernal office using State of Utah DOGM Form 7 *Report of Water Encountered during Drilling*. The following analyses shall be performed on any water encountered:

Flow rate (or blowtest)	Temperature	pH	TDS
Dissolved Iron	Dissolved Magnesium	Dissolved Bicarb.	Dissolved Sulfate
Dissolved Calcium	Dissolved Sodium	Dissolved Carbonate	Dissolved Chloride

All depths through the "Base of moderately saline ground water"*, along with any water encountered below that depth which is less than 10,000 TDS, shall be protected by the surface casing or by lifting the cement of the production casing into the surface casing.

*Base of Moderately Saline Groundwater from Howells, Longson and Hunt, 1981, Utah State Technical Publication 92: The Base of the Moderately Saline Water in the Uinta Basin, Utah



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3. PROPOSED CASING PROGRAM:

String	Hole	Casing	Top - MD	Bottom - MD	Weight lb/ft	Grade	Thread
Conductor	20"	14"	surface	54'	steel	Cond'r	none
Surface	12-1/4"	8-5/8"	surface	494'	24	J-55	STC
Production	7-7/8"	5-1/2"	surface	6212'	15.5	J-55	LTC

String	Hole	Casing	Collapse	Burst	Tensile
Surface	12-1/4"	8-5/8"	1,370 psi	2,950 psi	244,000 lb
Production	7-7/8"	5-1/2"	4,040 psi	4,810 psi	248,000 lb

- All casing will be new or inspected.
- The surface and production strings shall have a minimum of one (1) centralizer on each of the bottom three (3) joints.
- The production string shall have a minimum of one (1) centralizer for every three (3) joints from TD to the top of the "B" marker at 3988'MD.

4. PROPOSED CEMENTING PROGRAM:

String	Top	Cement Description	Sacks	Excess	Weight (ppg)	Yield (ft³/sk)
	Bottom		Vol (ft³)			
Conductor	0 ----- 54	Construction Grade Cement	Sufficient volumes to grout Conductor			
Surface	0 ----- 494	Class G +2% CaCl2 +0.25 lb/sk Cello Flake	227 ----- 265	30%	15.8	1.17
Production Lead	0 ----- 3988	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR¼ (LCM)	468 ----- 898	30%	12.5	1.92
Production Tail	3988 ----- 6212	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR¼ (LCM)	343 ----- 501	30%	13.4	1.46

- The 8-5/8" surface casing shall be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.
- The 5-1/2" production casing shall be cemented back to surface. In the event that during the primary cementing operation the cement does not circulate to surface, a remedial cementing operation shall be performed only if necessary to lift cement above the Trona at 2648'MD.



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5. MINIMUM PRESSURE CONTROL AND SAFETY EQUIPMENT:

- An 8", 2000 PSI, Double Ram BOPE with Hydraulic Closing Unit shall be used.
- A 2000 PSI Working Pressure Annular shall be used.
- The flowline shall have a minimum diameter of 10".
- Auxiliary equipment shall be a Kelly Cock, Bit Float, and a TIW valve with drill pipe threads.
- Spark arrestors shall be equipped on all engine exhausts within 100 feet of the wellbore.
- See attached 2,000 psi BOP schematic diagram.

BOPE TESTING PROCEDURE:

- The BOPE shall be tested by a professional tester to conform to Onshore Order #2.

6. MUD PROGRAM:

A. SURFACE HOLE

- The surface hole will be drilled with an air/mist system from 0' to 494'. All cutting shall be directed to pit.
- A trailer-mounted compressor with a capacity of 2000 CFM will be used. Compressor will have a safety shut-off valve located less than 15 feet from the driller's controls of the rig.
- The rat and mouse holes will be drilled with the air rig after surface casing is cemented.
- The 140 barrel water truck used with the deduster will be the source of kill fluid in the highly unlikely event of pressure being encountered during drilling of the surface hole.
- Operator requests the following variances from Onshore Order 2 part E during drilling of the surface hole. Operator will use air drilling techniques only on surface hole:
 - Operator requests a variance to regulations requiring the blooie line discharge to be 100' from the wellbore. Due to reduced location size, the blooie line discharge will be approximately 75' from the wellbore and securely anchored.
 - Operator requests a variance to regulations requiring an automatic igniter or continuous pilot light on the blooie line. A mister shall be on the end of the blooie line.
 - Operator requests a variance to regulations requiring compressors be located in the opposite direction from the blooie line; a minimum of 100' from the wellbore. Due to the reduced location size, the compressors shall be located as close as is reasonable to the opposite direction from the blooie line and 75' from the wellbore.
 - Operator requests a variance to regulations requiring a BOPE on the hole when drilling the surface hole. An air bowl shall be utilized on the diverter system in place of a BOPE.



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B. PRODUCTION HOLE

- The production hole shall be drilled with a freshwater polymer system from 494' to 6212'. LSND mud if conditions warrant.
- Clay inhibition and hole stability shall be achieved with a Diammonium Phosphate (DAP) additive or similar source of clay-stabilizing ions. Anticipated mud weight is 8.3-8.8 lbs/gal. although mud weight up to 10lbs/gal may be used if necessary to prevent wellbore wall instability due to the planned inclination of the well.
- All cuttings and circulating medium shall be directed into the reserve pit. Total Dissolved Solids (TDS) are anticipated to be less than 3000 PPM.
- Sufficient mud inventory will be maintained on location in either tanks or the reserve pit during the drilling of the production hole to handle any adverse conditions that may arise.
- If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite. Enough material shall be maintained on location to allow for the mudweight to be raised to 10.5 lbs/gal should need arise.
- During drilling operations, pit levels and flow from the well shall be monitored by instrumentation to include at least: a pit volume totalizer (PVT), a stroke counter, and a mud-flow indicator.
- A mud-gas separator shall be available on location.

C. HAZARDOUS MATERIALS AND POLLUTANTS

- Chromate additives **shall NOT** be used in the mud system on Indian lands without prior DOGM approval to ensure adequate protection of freshwater aquifers.
- Chemicals subject to reporting under SARA Title III in an amounts equal to or greater than 10,000 pounds annually **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Hazardous substances specifically listed by the EPA as a hazardous waste, as defined in 40 CFR 261 (D), or any substances that through their use would lead to the generation of a hazardous waste, **shall NOT** be used in association with the drilling, testing, or completion of this well.



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7. EVALUATION PROGRAM:

Logs: Triple Combo TD to base of surface casing (AIT, DSN, CDL)
Base of surface casing to surface (GR only)

Cores: None planned

DST: None planned

Testing: Operator plans no testing until the completion phase of the well.

8. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

- Operator anticipates Bottom Hole Temperatures below 150°F, the maximum temperature for DAP drilling fluids.
- No H₂S has been encountered or is known to exist from previous drilling in the area at this depth.
- Maximum pressure for hydrocarbon bearing zones at native conditions in this area is approximately 1553 PSI (0.25 PSI/ft gradient).
- This well is NOT in the vicinity of active injection wells. Nearby active injection can cause pressures up to a 0.433 PSI/ft gradient .

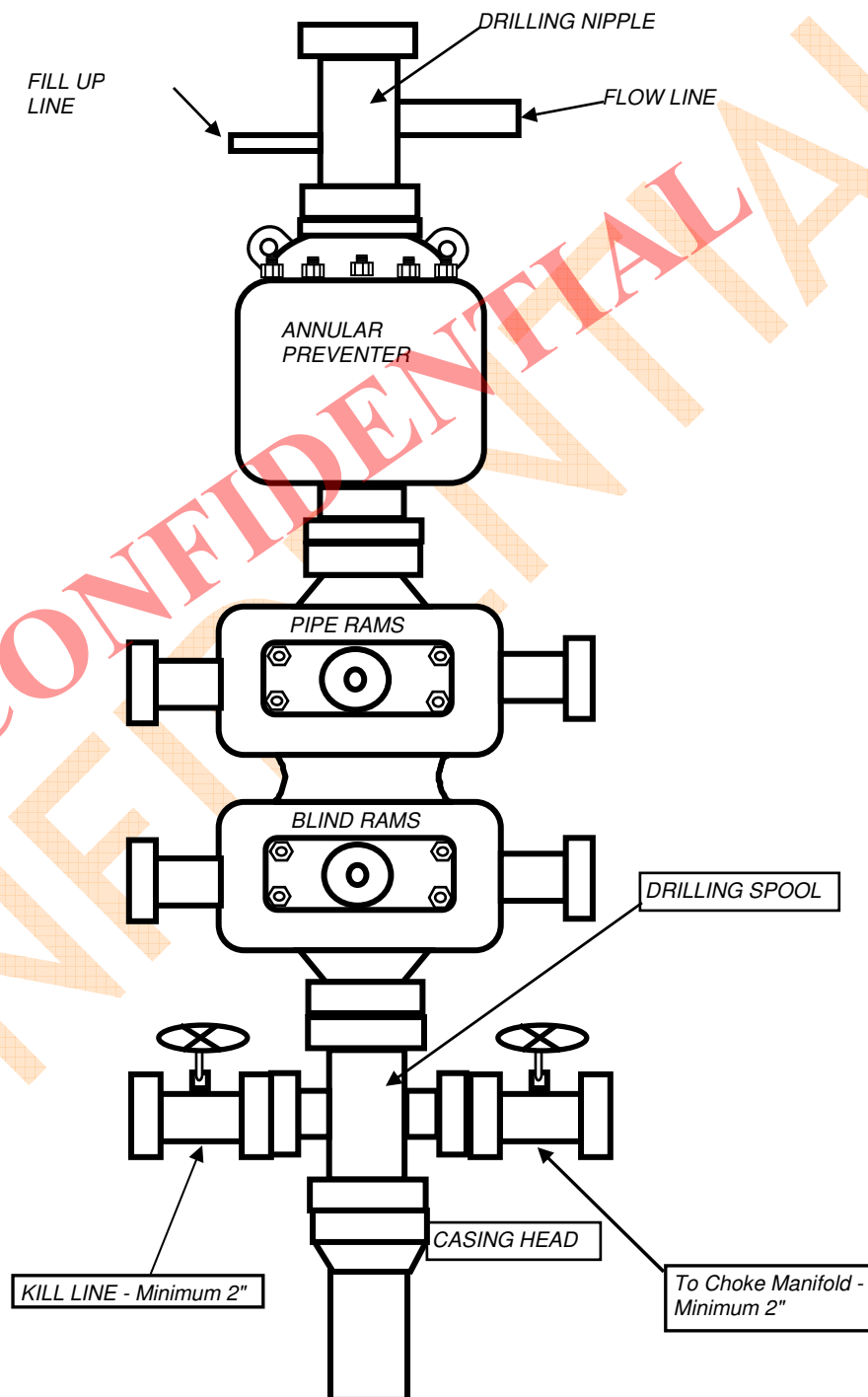
9. DIRECTIONAL WELL PLAN:

- Well shall be drilled directionally in order to limit surface disturbance.
- A Positive Displacement Motor with a bent sub of 1.25° to 1.75° will be used to control well path.
- A directional survey shall be taken at least one (1) time per 100' of drilling.
- Anti-collision equipment will not be used as there are no existing wells in the vicinity of the proposed well path.
- While cutting the Waterflood Unit Interval from 3988' to 5977', the actual well path may be allowed to vary up to 100' horizontally from plan in order to prevent excessive slide drilling. Above and below the Waterflood Unit Interval, variances in excess 100' horizontally from plan may be allowed.
- Directional drilling plan is attached.

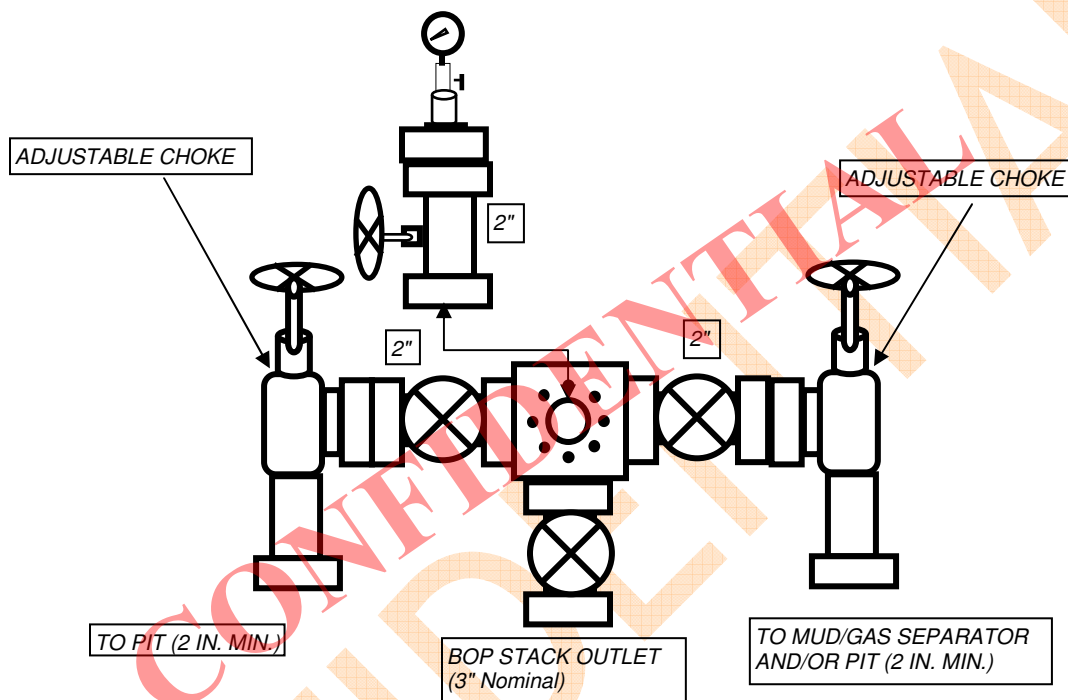


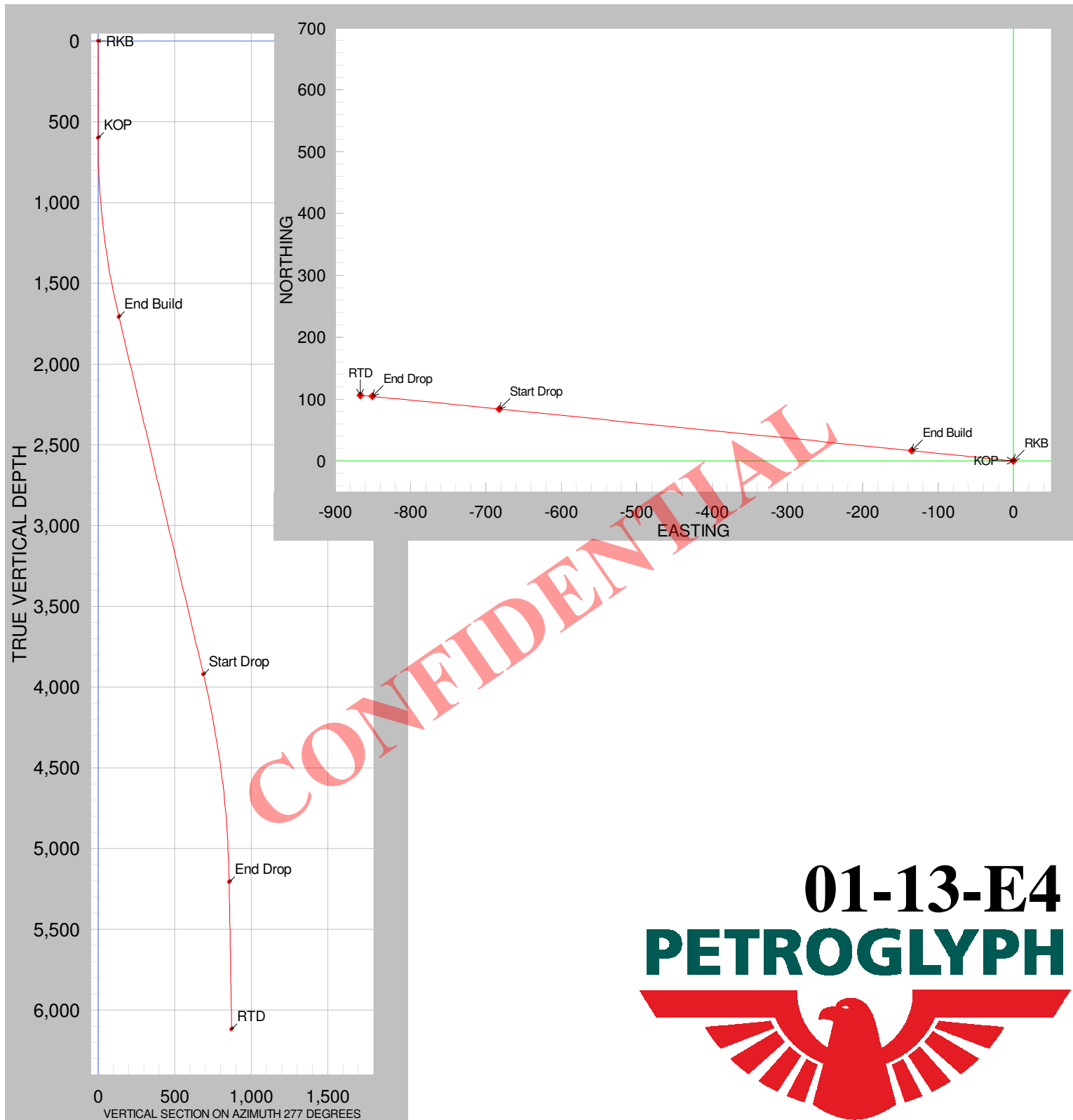
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TYPICAL 2,000 p.s.i. BLOWOUT PREVENTER



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TYPICAL 2,000 p.s.i. CHOKE MANIFOLD





#	Reference	Type	MD	Inc	Azi	TVD	N	E	DLS	Vert S
0	RKB	Tie Point	0.00	0.00	0.00	0.00	0.00	0.00		0.00
1	KOP	Vertical	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00
2	End Build	Build	1720.00	14.00	277.00	1708.89	16.59	-135.14	1.25	136.15
3	Start Drop	Tangent	4000.00	14.00	277.00	3921.16	83.81	-682.61	0.00	687.74
4	End Drop	Drop	5300.00	1.00	277.00	5207.28	104.45	-850.67	1.00	857.06
5	RTD	Tangent	6212.00	1.00	277.00	6119.14	106.39	-866.47	0.00	872.97

01-13-E4, Plan 1

01-13-E4, Plan 1										
Operator Petroglyph		Units feet, %100ft		11:45 Tuesday, October 02, 2012 Page 1 of 4						
Field		County Duchesne		Vertical Section Azimuth 277						
Well Name 01-13-E4		State UT		Survey Calculation Method Minimum Curvature						
Plan 1		Country USA		Database Access						
Location 554' FSL 1526' FWL 01-5s-4w		MapZone		Lat Long Ref						
Site		SurfaceX		Surface Long						
Slot Name		SurfaceY		Surface Lat						
Well Number		Z Datum								
Project		Surface Z		Ground Level						
DIRECTIONAL WELL PLAN										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%100ft	ft	ft	ft	ft
*** RKB (at MD = 0.00)										
0.00	0.00	0.0	0.00	0.00	0.00		0.00			
50.00	0.00	0.0	50.00	0.00	0.00	0.00	0.00			
100.00	0.00	0.0	100.00	0.00	0.00	0.00	0.00			
150.00	0.00	0.0	150.00	0.00	0.00	0.00	0.00			
200.00	0.00	0.0	200.00	0.00	0.00	0.00	0.00			
250.00	0.00	0.0	250.00	0.00	0.00	0.00	0.00			
300.00	0.00	0.0	300.00	0.00	0.00	0.00	0.00			
350.00	0.00	0.0	350.00	0.00	0.00	0.00	0.00			
400.00	0.00	0.0	400.00	0.00	0.00	0.00	0.00			
450.00	0.00	0.0	450.00	0.00	0.00	0.00	0.00			
500.00	0.00	0.0	500.00	0.00	0.00	0.00	0.00			
550.00	0.00	0.0	550.00	0.00	0.00	0.00	0.00			
*** KOP (at MD = 600.00)										
600.00	0.00	0.0	600.00	0.00	0.00	0.00	0.00			
650.00	0.63	277.0	650.00	0.03	-0.27	1.25	0.27			
700.00	1.25	277.0	699.99	0.13	-1.08	1.25	1.09			
750.00	1.88	277.0	749.97	0.30	-2.44	1.25	2.45			
800.00	2.50	277.0	799.94	0.53	-4.33	1.25	4.36			
850.00	3.13	277.0	849.88	0.83	-6.77	1.25	6.82			
900.00	3.75	277.0	899.79	1.20	-9.74	1.25	9.81			
950.00	4.38	277.0	949.66	1.63	-13.26	1.25	13.36			
1000.00	5.00	277.0	999.49	2.13	-17.31	1.25	17.44			
1050.00	5.63	277.0	1049.28	2.69	-21.91	1.25	22.07			
1100.00	6.25	277.0	1099.01	3.32	-27.04	1.25	27.24			
1150.00	6.88	277.0	1148.68	4.02	-32.71	1.25	32.96			
1200.00	7.50	277.0	1198.29	4.78	-38.92	1.25	39.21			
1250.00	8.13	277.0	1247.82	5.61	-45.67	1.25	46.01			
1300.00	8.75	277.0	1297.28	6.50	-52.95	1.25	53.35			
1350.00	9.38	277.0	1346.66	7.46	-60.77	1.25	61.22			
1400.00	10.00	277.0	1395.94	8.49	-69.12	1.25	69.64			
1450.00	10.63	277.0	1445.14	9.58	-78.00	1.25	78.59			
1500.00	11.25	277.0	1494.23	10.73	-87.42	1.25	88.07			
1550.00	11.88	277.0	1543.21	11.95	-97.36	1.25	98.10			
1600.00	12.50	277.0	1592.09	13.24	-107.84	1.25	108.65			
1650.00	13.13	277.0	1640.84	14.59	-118.85	1.25	119.74			

01-13-E4, Plan 1

Operator Petroglyph	Units feet, %/100ft	11:45 Tuesday, October 02, 2012 Page 2 of 4
Field	County Duchesne	Vertical Section Azimuth 277
Well Name 01-13-E4	State UT	Survey Calculation Method Minimum Curvature
Plan 1	Country USA	Database Access

Location 554' FSL 1526' FWL 01-5s-4w	MapZone	Lat Long Ref
Site	SurfaceX	Surface Long
Slot Name	SurfaceY	Surface Lat
Well Number	Z Datum	
Project	Surface Z	Ground Level

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
1700.00	13.75	277.0	1689.47	16.01	-130.38	1.25	131.36			
*** END BUILD (at MD = 1720.00)										
1720.00	14.00	277.0	1708.89	16.59	-135.14	1.25	136.15			
1750.00	14.00	277.0	1738.00	17.48	-142.34	0.00	143.41			
1800.00	14.00	277.0	1786.51	18.95	-154.35	0.00	155.51			
1850.00	14.00	277.0	1835.03	20.43	-166.35	0.00	167.60			
1900.00	14.00	277.0	1883.54	21.90	-178.36	0.00	179.70			
1950.00	14.00	277.0	1932.06	23.37	-190.37	0.00	191.80			
2000.00	14.00	277.0	1980.57	24.85	-202.37	0.00	203.89			
2050.00	14.00	277.0	2029.09	26.32	-214.38	0.00	215.99			
2100.00	14.00	277.0	2077.60	27.80	-226.38	0.00	228.08			
2150.00	14.00	277.0	2126.12	29.27	-238.39	0.00	240.18			
2200.00	14.00	277.0	2174.63	30.74	-250.40	0.00	252.28			
2250.00	14.00	277.0	2223.15	32.22	-262.40	0.00	264.37			
2300.00	14.00	277.0	2271.66	33.69	-274.41	0.00	276.47			
2350.00	14.00	277.0	2320.17	35.17	-286.41	0.00	288.57			
2400.00	14.00	277.0	2368.69	36.64	-298.42	0.00	300.66			
2450.00	14.00	277.0	2417.20	38.12	-310.43	0.00	312.76			
2500.00	14.00	277.0	2465.72	39.59	-322.43	0.00	324.85			
2550.00	14.00	277.0	2514.23	41.06	-334.44	0.00	336.95			
2600.00	14.00	277.0	2562.75	42.54	-346.44	0.00	349.05			
2650.00	14.00	277.0	2611.26	44.01	-358.45	0.00	361.14			
2700.00	14.00	277.0	2659.78	45.49	-370.46	0.00	373.24			
2750.00	14.00	277.0	2708.29	46.96	-382.46	0.00	385.33			
2800.00	14.00	277.0	2756.81	48.43	-394.47	0.00	397.43			
2850.00	14.00	277.0	2805.32	49.91	-406.47	0.00	409.53			
2900.00	14.00	277.0	2853.84	51.38	-418.48	0.00	421.62			
2950.00	14.00	277.0	2902.35	52.86	-430.49	0.00	433.72			
3000.00	14.00	277.0	2950.87	54.33	-442.49	0.00	445.81			
3050.00	14.00	277.0	2999.38	55.81	-454.50	0.00	457.91			
3100.00	14.00	277.0	3047.90	57.28	-466.50	0.00	470.01			
3150.00	14.00	277.0	3096.41	58.75	-478.51	0.00	482.10			
3200.00	14.00	277.0	3144.93	60.23	-490.52	0.00	494.20			
3250.00	14.00	277.0	3193.44	61.70	-502.52	0.00	506.29			
3300.00	14.00	277.0	3241.96	63.18	-514.53	0.00	518.39			

01-13-E4, Plan 1

Operator Petroglyph	Units feet, %/100ft	11:45 Tuesday, October 02, 2012 Page 3 of 4
Field	County Duchesne	Vertical Section Azimuth 277
Well Name 01-13-E4	State UT	Survey Calculation Method Minimum Curvature
Plan 1	Country USA	Database Access

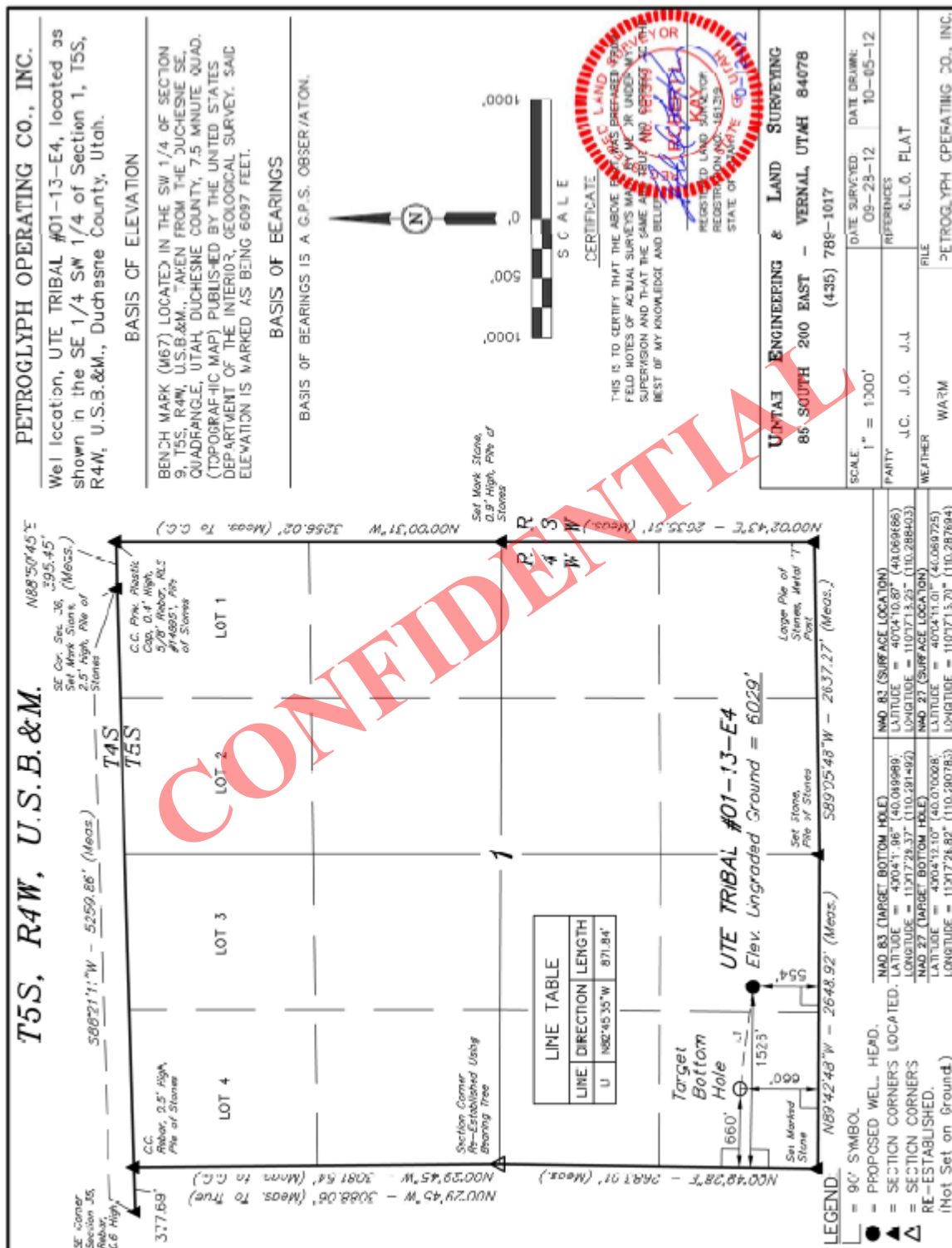
Location 554' FSL 1526' FWL 01-5s-4w	MapZone	Lat Long Ref
Site	SurfaceX	Surface Long
Slot Name	SurfaceY	Surface Lat
Well Number	Z Datum	
Project	Surface Z	Ground Level

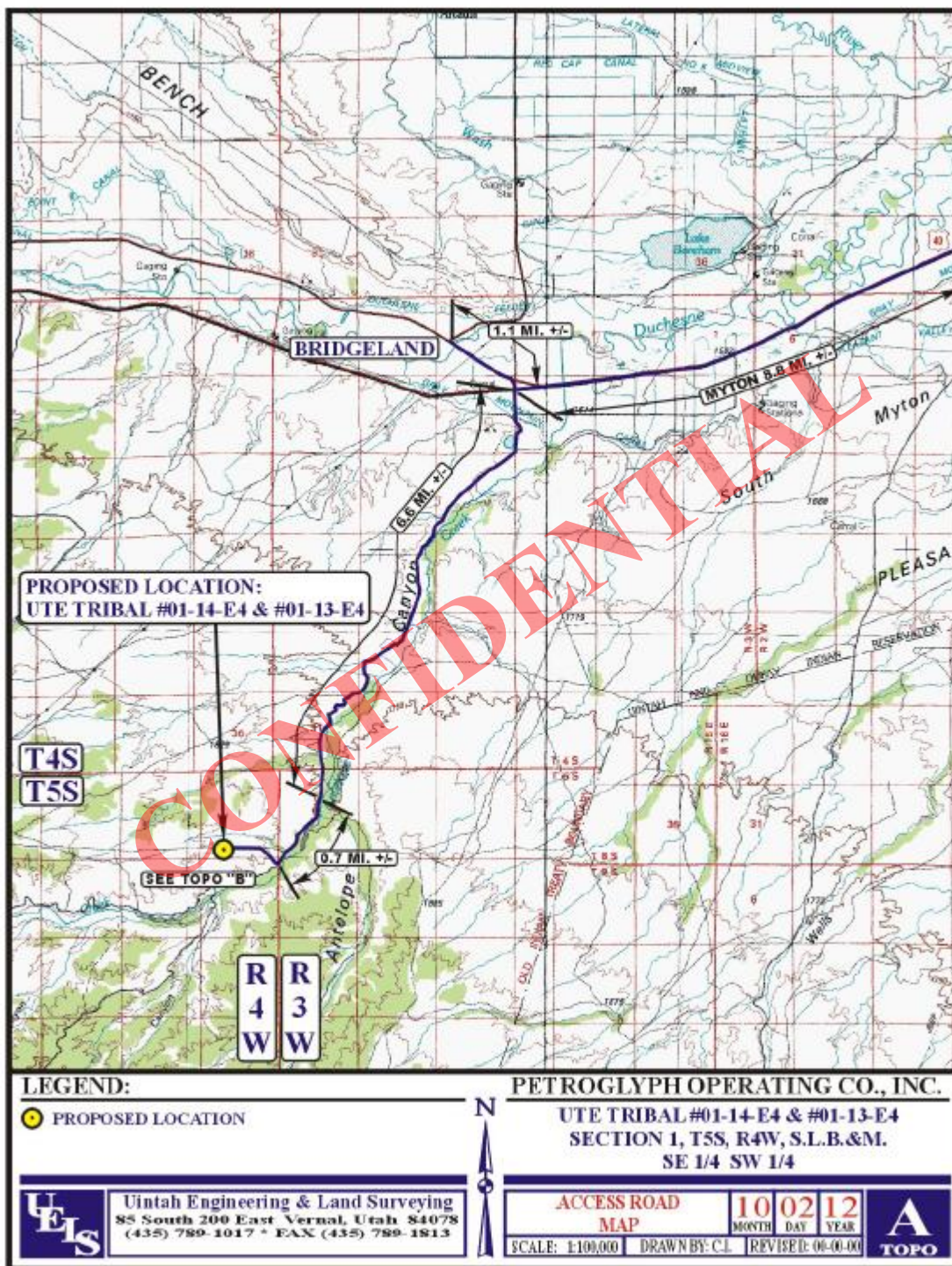
DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
3350.00	14.00	277.0	3290.47	64.65	-526.53	0.00	530.49			
3400.00	14.00	277.0	3338.99	66.12	-538.54	0.00	542.58			
3450.00	14.00	277.0	3387.50	67.60	-550.54	0.00	554.68			
3500.00	14.00	277.0	3436.01	69.07	-562.55	0.00	566.78			
3550.00	14.00	277.0	3484.53	70.55	-574.56	0.00	578.87			
3600.00	14.00	277.0	3533.04	72.02	-586.56	0.00	590.97			
3650.00	14.00	277.0	3581.56	73.50	-598.57	0.00	603.06			
3700.00	14.00	277.0	3630.07	74.97	-610.57	0.00	615.16			
3750.00	14.00	277.0	3678.59	76.44	-622.58	0.00	627.26			
3800.00	14.00	277.0	3727.10	77.92	-634.59	0.00	639.35			
3850.00	14.00	277.0	3775.62	79.39	-646.59	0.00	651.45			
3900.00	14.00	277.0	3824.13	80.87	-658.60	0.00	663.54			
3950.00	14.00	277.0	3872.65	82.34	-670.60	0.00	675.64			
*** START DROP (at MD = 4000.00)										
4000.00	14.00	277.0	3921.16	83.81	-682.61	0.00	687.74			
4050.00	13.50	277.0	3969.73	85.26	-694.41	1.00	699.62			
4100.00	13.00	277.0	4018.40	86.66	-705.78	1.00	711.08			
4150.00	12.50	277.0	4067.17	88.00	-716.73	1.00	722.12			
4200.00	12.00	277.0	4116.03	89.30	-727.26	1.00	732.72			
4250.00	11.50	277.0	4164.98	90.54	-737.37	1.00	742.91			
4300.00	11.00	277.0	4214.02	91.73	-747.05	1.00	752.66			
4350.00	10.50	277.0	4263.14	92.86	-756.31	1.00	761.99			
4400.00	10.00	277.0	4312.34	93.95	-765.14	1.00	770.88			
4450.00	9.50	277.0	4361.62	94.98	-773.54	1.00	779.35			
4500.00	9.00	277.0	4410.97	95.96	-781.52	1.00	787.39			
4550.00	8.50	277.0	4460.39	96.89	-789.07	1.00	794.99			
4600.00	8.00	277.0	4509.87	97.76	-796.19	1.00	802.17			
4650.00	7.50	277.0	4559.41	98.58	-802.88	1.00	808.91			
4700.00	7.00	277.0	4609.01	99.35	-809.15	1.00	815.22			
4750.00	6.50	277.0	4658.67	100.07	-814.98	1.00	821.10			
4800.00	6.00	277.0	4708.37	100.73	-820.38	1.00	826.54			
4850.00	5.50	277.0	4758.12	101.34	-825.35	1.00	831.55			
4900.00	5.00	277.0	4807.91	101.90	-829.89	1.00	836.13			
4950.00	4.50	277.0	4857.74	102.40	-834.00	1.00	840.27			
5000.00	4.00	277.0	4907.60	102.85	-837.68	1.00	843.97			

01-13-E4, Plan 1

01-13-E4, Plan 1										
Operator	Petroglyph			Units	feet, %100ft		11:45 Tuesday, October 02, 2012 Page 4 of 4			
Field				County	Duchesne		Vertical Section Azimuth 277			
Well Name	01-13-E4			State	UT		Survey Calculation Method Minimum Curvature			
Plan	1			Country	USA		Database Access			
Location	554' FSL 1526' FWL 01-5s-4w					MapZone	Lat Long Ref			
Site						SurfaceX	Surface Long			
Slot Name	UWI					SurfaceY	Surface Lat			
Well Number	API					Z Datum				
Project						Surface Z	Ground Level			
DIRECTIONAL WELL PLAN										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%100ft	ft	ft	ft	ft
5050.00	3.50	277.0	4957.49	103.25	-840.93	1.00	847.24			
5100.00	3.00	277.0	5007.41	103.60	-843.74	1.00	850.08			
5150.00	2.50	277.0	5057.35	103.89	-846.12	1.00	852.48			
5200.00	2.00	277.0	5107.31	104.13	-848.07	1.00	854.44			
5250.00	1.50	277.0	5157.29	104.32	-849.59	1.00	855.97			
*** END DROP (at MD = 5300.00)										
5300.00	1.00	277.0	5207.28	104.45	-850.67	1.00	857.06			
5350.00	1.00	277.0	5257.27	104.56	-851.53	0.00	857.93			
5400.00	1.00	277.0	5307.26	104.66	-852.40	0.00	858.80			
5450.00	1.00	277.0	5357.26	104.77	-853.27	0.00	859.67			
5500.00	1.00	277.0	5407.25	104.87	-854.13	0.00	860.55			
5550.00	1.00	277.0	5457.24	104.98	-855.00	0.00	861.42			
5600.00	1.00	277.0	5507.23	105.09	-855.86	0.00	862.29			
5650.00	1.00	277.0	5557.22	105.19	-856.73	0.00	863.16			
5700.00	1.00	277.0	5607.22	105.30	-857.60	0.00	864.04			
5750.00	1.00	277.0	5657.21	105.41	-858.46	0.00	864.91			
5800.00	1.00	277.0	5707.20	105.51	-859.33	0.00	865.78			
5850.00	1.00	277.0	5757.19	105.62	-860.20	0.00	866.66			
5900.00	1.00	277.0	5807.19	105.73	-861.06	0.00	867.53			
5950.00	1.00	277.0	5857.18	105.83	-861.93	0.00	868.40			
6000.00	1.00	277.0	5907.17	105.94	-862.79	0.00	869.27			
6050.00	1.00	277.0	5957.16	106.04	-863.66	0.00	870.15			
6100.00	1.00	277.0	6007.16	106.15	-864.53	0.00	871.02			
6150.00	1.00	277.0	6057.15	106.26	-865.39	0.00	871.89			
6200.00	1.00	277.0	6107.14	106.36	-866.26	0.00	872.76			
*** RTD (at MD = 6212.00)										
6212.00	1.00	277.0	6119.14	106.39	-866.47	0.00	872.97			





PETROGLYPH OPERATING CO., INC.
P.O. BOX 607
ROOSEVELT, UTAH 84066

October 30, 2012

Ms. Diana Mason
State of Utah
Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

Re: Directional Drilling R649-3-11

Ute Tribal 01-13-E4: 554' FSL & 1526' FWL, SE/SW, SEC. 1, (Surface Hole)
660' FSL & 660' FWL, SW/SW, Sec. 1, (Bottom Hole)
T5S, R4W, U.S.B.&M., Duchesne County, Utah

Dear Ms. Mason,

Pursuant to the filing of Petroglyph Operating Co., Inc.'s Application for Permit to Drill regarding the above referenced well on October 30, 2012, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- The Ute Tribal 01-10-E4 is located within the Antelope Creek Unit Area.
- Petroglyph Operating Co., Inc. is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and drilling directionally from this location, Petroglyph Operating Co., Inc. will be able to utilize the existing road and pipelines in the area.
- Furthermore, Petroglyph Operating Co., Inc. hereby certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information, Petroglyph Operating Co., Inc. requests the permit be granted pursuant to R649-3-11.

Respectfully Submitted,

Ed Trotter,
Agent
P.O. Box 1910
Vernal, UT 84078
Phone: (435)789-4120
Fax: (435)789-1420
E-mail: edtrotter@easilink.com

RECEIVED: October 30, 2012

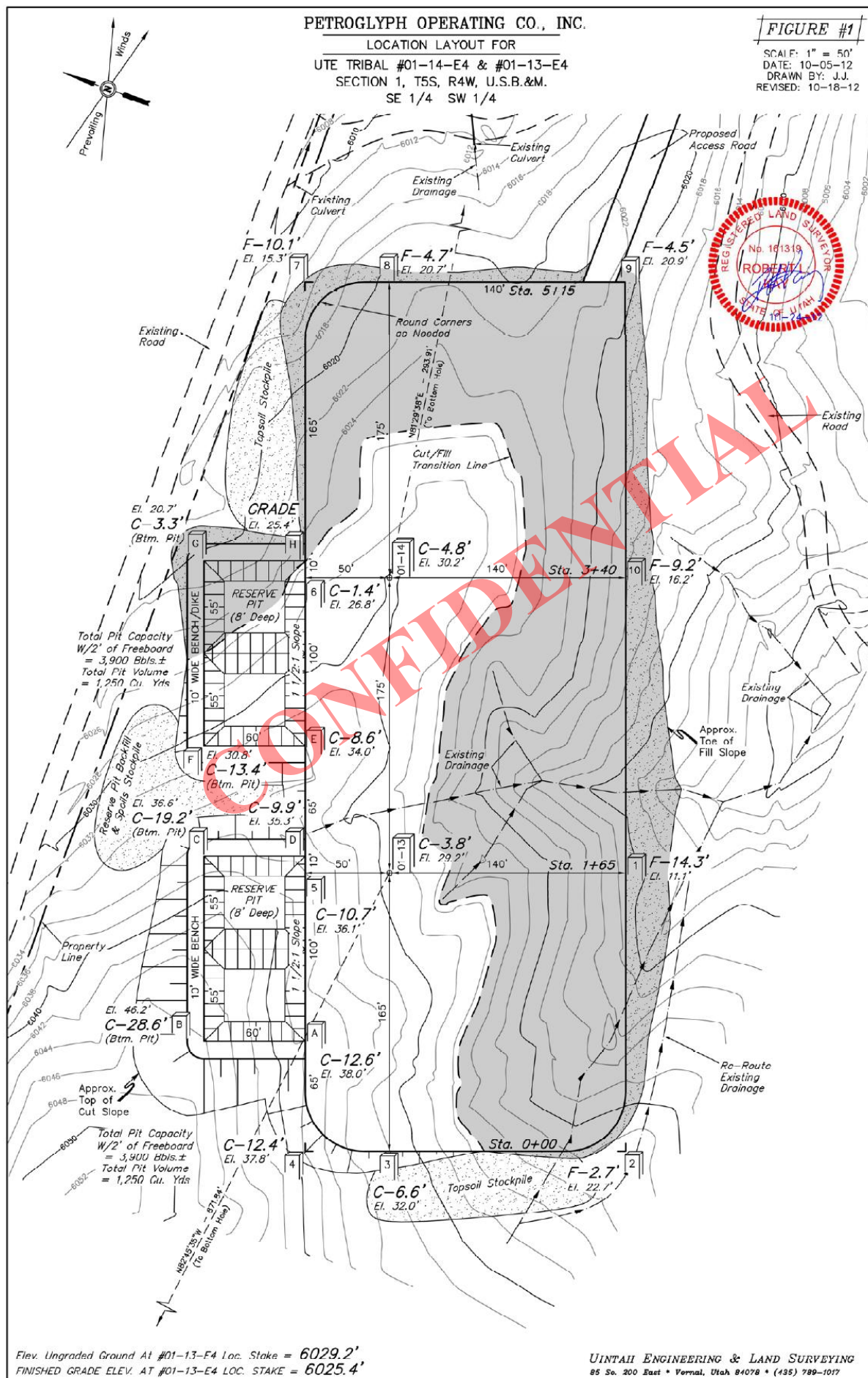
Certification

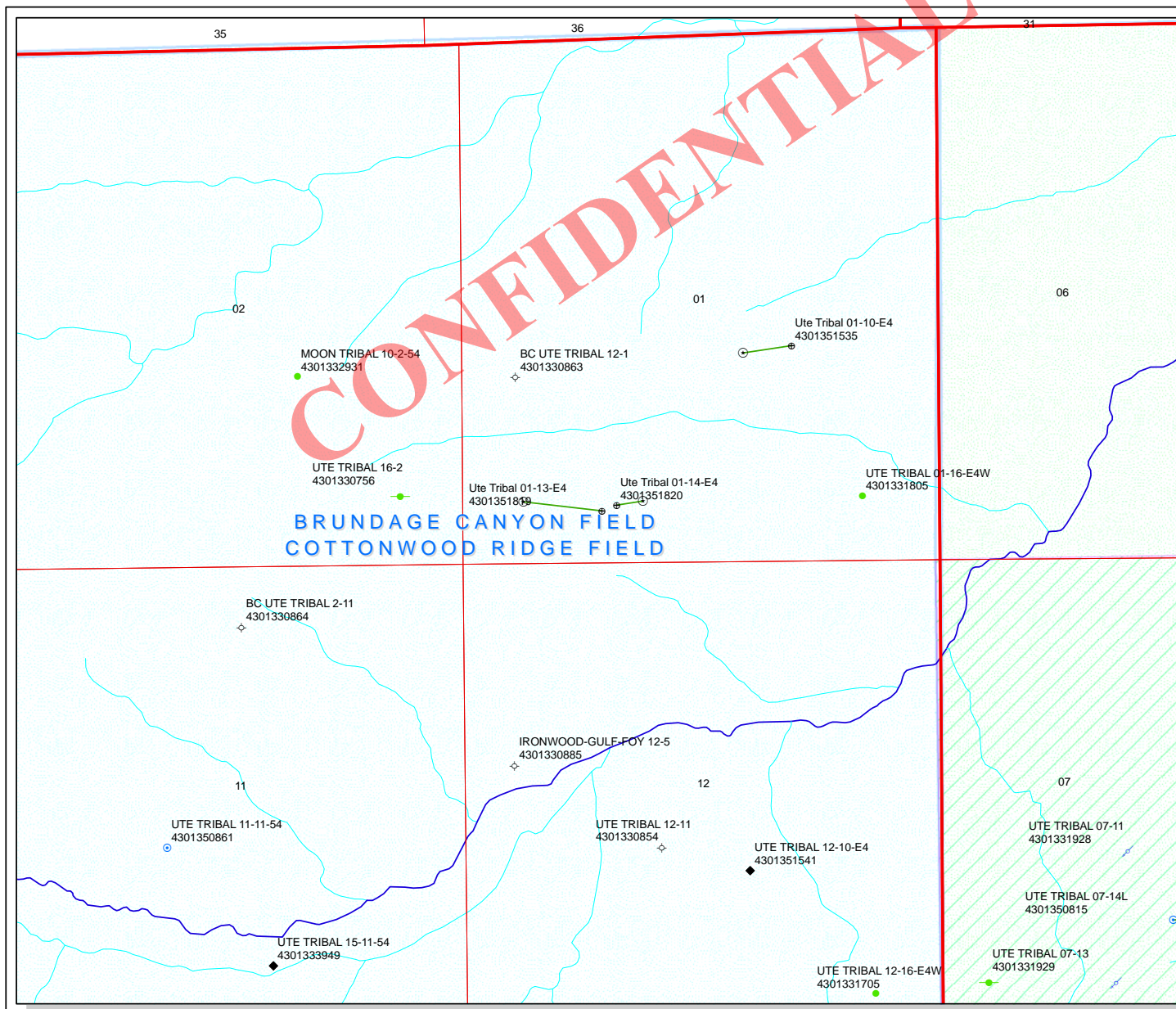
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently exist; that the statements made in the Plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Co., Inc. and its contractors and subcontractors in conformity with this Plan and the terms and conditions under which it is approved.

Please be advised that Petroglyph Operating Co., Inc. is considered to be the operator of the **UTE TRIBAL 01-13E4 Well, located in SE/SW of Section 1, T5S, R4W, Duchesne County, Utah, lease #14-20-H62-4743**; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond Coverage is provided under Bond #LPM4138153.

Date

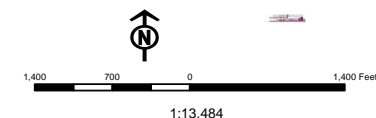
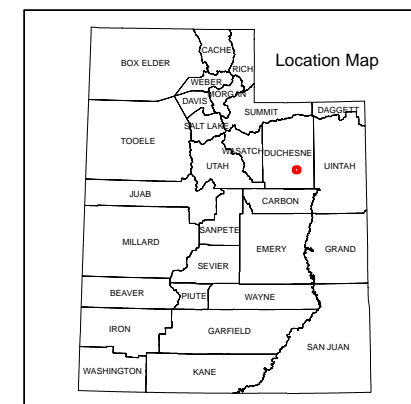
Agent





API Number: 4301351819
Well Name: Ute Tribal 01-13-E4
Township T05.0S Range R04.0W Section 01
Meridian: UBM
Operator: PETROGLYPH OPERATING CO
 Map Prepared:
 Map Produced by Diana Mason

Units	Wells Query
STATUS	STATUS
ACTIVE	APD - Approved Permit
EXPLORATORY	DRL - Spudded (Drilling Commenced)
GAS STORAGE	GIW - Gas Injection
NF PP OIL	GS - Gas Storage
NF SECONDARY	LOC - New Location
PI OIL	OPS - Operation Suspended
PP GAS	PA - Plugged Abandoned
PP GEOTHERM	PGW - Producing Gas Well
PP OIL	POW - Producing Oil Well
SECONDARY	SGW - Shut-in Gas Well
TERMINATED	SOW - Shut-in Oil Well
	TA - Temp. Abandoned
	TW - Test Well
	WDW - Water Disposal
	WW - Water Injection Well
	WSW - Water Supply Well
	Bottom Hole Location - Oil/Gas/Dib
Fields	
Unknown	
ABANDONED	
ACTIVE	
COMBINED	
INACTIVE	
STORAGE	
TERMINATED	



ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator PETROGLYPH OPERATING CO
Well Name Ute Tribal 01-13-E4
API Number 43013518190000 **APD No** 7042 **Field/Unit** BRUNDAGE CANYON
Location: 1/4,1/4 SESW Sec 1 Tw 5.0S Rng 4.0W 554 FSL 1526 FWL
GPS Coord (UTM) 560677 4435735 **Surface Owner** Petroglyph Operating Co., Inc.

Participants

Rodrigo Jurado & Les Farnsworth (Petroglyph Operating and landowner); Ed Trotter (Land Agent); Bill Civish (BLM); Dennis Ingram (Utah Division of Oil, Gas & Mining)

Regional/Local Setting & Topography

The Ute Tribal 1-13-E4 and 1-14-E4 are both proposed on connected locations as directional wells that target the SW/SW and the SE/SW of Section 1, Township 5 South, Range 4 West. This pad is in northeastern Utah on the southern boundary of the Uintah Basin, approximately 7.1 miles south/southwest of the Bridgeland/U.S. Highway 40 junction, along the Antelope Canyon road one mile south of the Antelope/Sowers Canyon Junction. Broad, bench like habitat slopes north from Anthro Mountain into the Uintah Basin, having the lowest elevation at the Duchesne River. These broad benches have numerous drainages that drain the high country northerly, with Sowers Canyon being one of the primary arteries. This well pad is positioned approximately 0.5 miles west of Sowers Canyon along its western rims, in rolling hills with sparse cedar tree habitat and short, desert-like sagebrush country, on a narrow, fingered east/west ridge that drops into the canyon below.

Surface Use Plan

Current Surface Use

Wildlife Habitat
Deer Winter Range

New Road Miles	Well Pad	Src Const Material	Surface Formation
0.07	Width 515 Length 190	Onsite	UNTA

Ancillary Facilities N

Two well pad with extended location and two reserve pits

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Sparse vegetation, cedar tree, sagebrush, rabbit brush, bunch grass, prickly pear cactus; mule deer winter range, littered with tracks, elk potential, coyote, rabbit, fox, raptor nest in area, no details.

Soil Type and Characteristics

Tan, fine-grained, sandy loam with some clays and shales present

Erosion Issues N**Sedimentation Issues** N**Site Stability Issues** N**Drainage Diversion Required?** N**Berm Required?** Y**Erosion Sedimentation Control Required?** N**Paleo Survey Run?** Y **Paleo Potential Observed?** N **Cultural Survey Run?** Y **Cultural Resources?** N**Reserve Pit****Site-Specific Factors****Site Ranking**

Distance to Groundwater (feet)	>200	0
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)		20
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
Final Score		35

1 Sensitivity Level

Characteristics / Requirements

Reserve pit staked on northwest side of location in cut, measuring 110' long by 60' wide by 8' deep

Closed Loop Mud Required? **Liner Required?** Y **Liner Thickness** 16 **Pit Underlayment Required?**

Other Observations / Comments

Petroglyph Operating has purchased the surface from the landowner, landowner agreement is in place, well pad was lengthened to provide a greater distance between the wellbores, BLM requested "Culvert Green" as the color of choice for the equipment, also claimed their data base shows a "raptor's nest" in the area and requested a low activity stipulation during nesting season, an existing county road runs east/west immediately north of the proposed reserve pits. A portion of the reserve pit for the 1-14 is in fill, or the northeastern third.

Dennis Ingram
Evaluator

11/27/2012
Date / Time

Application for Permit to Drill

Statement of Basis

Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
7042	43013518190000	LOCKED	OW	P	No
Operator	PETROGLYPH OPERATING CO		Surface Owner-APD	Petroglyph Operating Co., Inc.	
Well Name	Ute Tribal 01-13-E4		Unit		
Field	BRUNDAGE CANYON		Type of Work	DRILL	
Location	SESW 1 5S 4W U 554 FSL 1526 FWL GPS Coord (UTM) 560686E 4435749N				

Geologic Statement of Basis

The mineral rights for the proposed well are owned by the Ute Tribe. The BLM will be the agency responsible for evaluating and approving the drilling, casing and cement programs.

Brad Hill
APD Evaluator

12/10/2012
Date / Time

Surface Statement of Basis

A presite visit was scheduled and done on Tuesday, November 27, 2012 to take input and address issues regarding the drilling and construction of the Ute Tribal 1-13-E4 and the 1-14-E4 wells on a multi-well pad. Petroglyph Operating is shown as the landowner of record and was therefore invited to the presite. Rodrigo Jurado came along and represented the landowner interests, and they obviously have a landowner agreement.

Two reserve pits are proposed on this extended, multi-well pad just north of the surface. The reserve pit staked for the 1-13 is the western pit and completely in cut; while the reserve pit proposed for the 1-14 is further east and has the northeastern third in fill. A solid dike shall be constructed in this pit to assure the state this pit will not leak. Furthermore, both pits shall be lined with a minimum 16 mil synthetic liner and a pad if necessary to prevent seepage.

Two drainages are noted on the cut and fill sheet, both of which drain southerly from near the center of the location. However, only the western drainage heads up above the proposed pad and shall be routed around the well surface. The cut and fill sheet also show reserve pit spoils and topsoil piles very close to the existing county road to the north. The operator shall take care to keep those spoils off the roadway. There wasn't any springs, surface water or creeks observed in the immediate area around this pad. The BLM did make note of an existing hawk nest in the area but did not have any details as to how far, or when the nest was last utilized.

Dennis Ingram
Onsite Evaluator

11/27/2012
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils shall be properly installed and maintained in the reserve pit.
Pits	The reserve pit should be located on the north side of the location.

API Well Number: 43013518190000

Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.

CONFIDENTIAL

RECEIVED: December 11, 2012

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/30/2012

API NO. ASSIGNED: 43013518190000

WELL NAME: Ute Tribal 01-13-E4

OPERATOR: PETROGLYPH OPERATING CO (N3800)

PHONE NUMBER: 435 789-4120

CONTACT: Ed Trotter

PROPOSED LOCATION: SESW 01 050S 040W

Permit Tech Review: ☒

SURFACE: 0554 FSL 1526 FWL

Engineering Review: ☐

BOTTOM: 0660 FSL 0660 FWL

Geology Review: ☒

COUNTY: DUCHESNE

LATITUDE: 40.06982

LONGITUDE: -110.28834

UTM SURF EASTINGS: 560686.00

NORTHINGS: 4435749.00

FIELD NAME: BRUNDAGE CANYON

LEASE TYPE: 2 - Indian

LEASE NUMBER: 14-20-H62-4743

PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

☒ PLAT☒ Bond: STATE/FEE - LPM4138153☐ Potash☐ Oil Shale 190-5☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Water Permit: 43-8342☐ RDCC Review:☐ Fee Surface Agreement☐ Intent to Commingle

Commingle Approved

LOCATION AND SITING:

☐ R649-2-3.

Unit:

☐ R649-3-2. General☒ R649-3-3. Exception☒ Drilling Unit

Board Cause No: R649-3-11

Effective Date:

Siting:

☒ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 1 - Exception Location - bhll
4 - Federal Approval - dmason
5 - Statement of Basis - bhll
15 - Directional - dmason
23 - Spacing - dmason

RECEIVED: December 11, 2012



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Ute Tribal 01-13-E4

API Well Number: 43013518190000

Lease Number: 14-20-H62-4743

Surface Owner: FEE (PRIVATE)

Approval Date: 12/11/2012

Issued to:

PETROGLYPH OPERATING CO, 960 Broadway Avenue, Ste 500, Bosie, ID 83703

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-11. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Exception Location:

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled,

completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan - contact Dustin Doucet
- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
at <http://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
- contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well - contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month

- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read "J. Rogers", written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
NOV 13 2012

RECEIVED

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010APPLICATION FOR PERMIT TO DRILL OR REENTER
BLM

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. 1420H624743	
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name UINTAH AND OURAY	
2. Name of Operator PETROGLYPH OPERATING CO INC		7. If Unit or CA Agreement, Name and No.	
3a. Address ROOSEVELT, UT 84066		8. Lease Name and Well No. UTE TRIBAL 01-13-E4	
3b. Phone No. (include area code) Ph: 435-789-4120 Fx: 435-789-1420		9. API Well No. 43013 51819	
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface SESW 554FSL 1526FWL 40.069686 N Lat, 110.288403 W Lon At proposed prod. zone SWSW 660FSL 660FWL 40.069989 N Lat, 110.291492 W Lon		10. Field and Pool, or Exploratory UNDESIGNATED	
14. Distance in miles and direction from nearest town or post office* 17.32 MILES SOUTHWEST OF MYTON, UTAH		11. Sec., T., R., M., or Blk. and Survey or Area Sec 1 T5S R4W Mer UBM SME: FEE	
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 554		12. County or Parish DUCHESE	
16. No. of Acres in Lease 640.00		13. State UT	
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1721		17. Spacing Unit dedicated to this well	
21. Elevations (Show whether DF, KB, RT, GL, etc.) 6025 GL		20. BLM/BIA Bond No. on file LPM4138335	
22. Approximate date work will start 01/10/2013		23. Estimated duration 45 DAYS	
24. Attachments			

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) LESTER FARNSWORTH Ph: 435-722-2531	Date 10/30/2012
Title DISTRICT MANAGER		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date JAN 22 2013
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #156929 verified by the BLM Well Information System
For PETROGLYPH OPERATING CO INC, sent to the Vernal
Committed to AFMSS for processing by JOHNETTA MAGEE on 11/13/2012 (13JM0783AE)

NOTICE OF APPROVAL

UDOGM

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: PETROGLYPH OPERATING CO INC
Well No: UTE TRIBAL 01-13-E4
API No: 43-013-51819

Location:
Lease No:
Agreement:

SESW, Sec. 1, T5S, R4W
14-20-H62-4743
N/A

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov .
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

CONDITIONS OF APPROVAL:

- Any deviation of submitted APD's, which includes Petroglyph's surface use plan, and the operator will notify the BLM in writing and will receive written authorization of any such change with appropriate authorization.
- All operator employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's, and COA authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- All personnel will refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.
- The personnel from the BLM will be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease until resources can be identified and protected properly.
- Production facilities would be painted Beetle for the 12-04-E4 and Covert Green for 01-13-E4 and 01-14E4 to blend in with the surrounding habitat, unless otherwise stated from the private land owner agreement.
- Site reclamation would be accomplished for portions of the well pad not needed for production, within 6 months of completion, weather permitting. This also includes any roads, and pipeline areas that have been disturbed as well. Roads and pipeline disturbances can undergo reclamation immediately after the pipeline is installed and after the roads are built. Please contact surface owner or the BLM AO for possible seed mixes to use in the project area. Non-natives can be used; however lbs/ac must be kept low to minimize the chance of a monoculture.
- The pad locations will be recontoured and planted in native vegetation as per the land owner's request.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

- Gamma Ray Log shall be run from Total Depth to Surface.
- CBL will be run from TD to TOC.
- Cement for the surface casing will be circulated to the surface.
- Cement for long-string shall be circulated 200' above surface casing shoe.
- Variances Granted
- Variance for Air-drilling is granted per APD

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well by CD (compact disc). This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if

performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-4743
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500 , Boise, ID, 83703		8. WELL NAME and NUMBER: Ute Tribal 01-13-E4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0554 FSL 1526 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 01 Township: 05.0S Range: 04.0W Meridian: U		9. API NUMBER: 43013518190000
PHONE NUMBER: 208 685-7685 Ext		9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON
COUNTY: DUCHESNE		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 5/29/2013	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. This well was spudded on 5/29/2013 at 10:00 AM. Using a bucket rig (BR2) provided by Craig's Roustabout Service - Vernal, UT, we set 40' of 16" conductor. Contact our office at 435-722-2531 if you need additional information.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 29, 2013		
NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A	DATE 5/29/2013	

BLM - Vernal Field Office - Notification Form

Operator Petroglyph Operating Rig Name/# Craig's /Air rig
Submitted By Rodrigo Jurado Phone Number 435-722-5302
Well Name/Number Ute Tribal 01-13-E4
Qtr/Qtr SESW Section 01 Township 5S Range 4W
Lease Serial Number 14-20-H62-4743
API Number 43-013-51819

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time _____ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
☐ Intermediate Casing
☐ Production Casing
☐ Liner
☐ Other

Date/Time 05/31/2013 07:00 AM ☐ PM ☒

BOPE

- ☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

RECEIVED
MAY 31 2013
DIV. OF OIL, GAS & MINING

Date/Time _____ AM ☐ PM ☐

Remarks We intend to run +/- 500' of 8-5/8" J-55 Casing at the time indicated. (Sent 5/30/2013 @ 11:30 A.M.)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

RECEIVED
MAY 29 2013

FORM 6

ENTITY ACTION FORM

Div. of Oil, Gas & Mining

Operator: Petroglyph Operating Company
Address: P.O. Box 607
city Roosevelt
state UT zip 84066

Operator Account Number: N 3800

Phone Number: (435) 722-2531

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301351526	Ute Tribal 17-07		SWNE	17	5S	3W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	12085	5/22/2013		30-May-2013		
Comments: Please add well to existing Ute Tribal 17-15 Tank Battery. grrv							

CONFIDENTIAL

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301351819	Ute Tribal 01-13-E4		SESW	1	5S	3W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	18870	5/29/2013				
Comments: Please add well to existing Ute Tribal 01-14-E4 Tank Battery. bhl SWSW grrv							

CONFIDENTIAL

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Rodrigo Jurado

Name (Please Print)

Signature

Regulatory Compliance Spc.

Title

5/29/2013

Date

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9																														
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-4743																														
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COUNTY: DUCHESNE		STATE: UTAH																														
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA																																
TYPE OF SUBMISSION <input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 6/11/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <table style="width: 100%;"> <tr> <td><input type="checkbox"/> ACIDIZE</td> <td><input type="checkbox"/> ALTER CASING</td> <td><input type="checkbox"/> CASING REPAIR</td> </tr> <tr> <td><input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS</td> <td><input type="checkbox"/> CHANGE TUBING</td> <td><input type="checkbox"/> CHANGE WELL NAME</td> </tr> <tr> <td><input type="checkbox"/> CHANGE WELL STATUS</td> <td><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td> <td><input type="checkbox"/> CONVERT WELL TYPE</td> </tr> <tr> <td><input type="checkbox"/> DEEPEN</td> <td><input type="checkbox"/> FRACTURE TREAT</td> <td><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td><input type="checkbox"/> OPERATOR CHANGE</td> <td><input type="checkbox"/> PLUG AND ABANDON</td> <td><input type="checkbox"/> PLUG BACK</td> </tr> <tr> <td><input type="checkbox"/> PRODUCTION START OR RESUME</td> <td><input type="checkbox"/> RECLAMATION OF WELL SITE</td> <td><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td> </tr> <tr> <td><input type="checkbox"/> REPERFORATE CURRENT FORMATION</td> <td><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td> <td><input type="checkbox"/> TEMPORARY ABANDON</td> </tr> <tr> <td><input type="checkbox"/> TUBING REPAIR</td> <td><input type="checkbox"/> VENT OR FLARE</td> <td><input type="checkbox"/> WATER DISPOSAL</td> </tr> <tr> <td><input type="checkbox"/> WATER SHUTOFF</td> <td><input type="checkbox"/> SI TA STATUS EXTENSION</td> <td><input type="checkbox"/> APD EXTENSION</td> </tr> <tr> <td><input type="checkbox"/> WILDCAT WELL DETERMINATION</td> <td><input type="checkbox"/> OTHER</td> <td>OTHER: <input style="width: 100px;" type="text"/></td> </tr> </table>		<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	<input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>
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<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION																														
<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK																														
<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION																														
<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON																														
<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL																														
<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION																														
<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>																														
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Petroglyph Operating Company proposes to deepen the well referenced above to an approximate TVD of 6996' and an approximate MD of 7100'. The well will be drilled according to the approved plan except for the change in depth. Cement volumes will be adjusted accordingly. Please see the attached revised drilling plan. Contact our staff if you have any questions or require additional materials.																																
NAME (PLEASE PRINT) Rodrigo Jurado		PHONE NUMBER 435 722-5302																														
SIGNATURE N/A		TITLE Regulatory & Compliance Spc																														
DATE 6/11/2013		APPROVED BY THE UTAH DIVISION OF OIL, GAS AND MINING Date: June 11, 2013 By: <u>Derek Quist</u>																														

CONFIDENTIAL
NINE POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
UTE TRIBAL 01-13-E4
SE SW, SEC 1, T5S, R4W
DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Formation	Elevation	TVD	MD
Rig KB~14' above GGL	6039	0	0
Surface Formation = Uinta			
Uinta	6025	14	14
Green River	4760	1279	1282
Trona	3430	2609	2648
Mahogany Shale	3275	2764	2808
"B" Marker	2130	3909	3988
"X" Marker	1635	4404	4494
Douglas Creek Marker	1495	4544	4635
"B" Limestone	1090	4949	5042
Base Castle Peak Limestone	560	5479	5572
BSCARB	155	5884	5977
Wasatch	-100	6139	6244
Rig TD	-956	6996	7100

2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS:

Substance	Formation	Elevation	TVD	MD
Base of moderately saline ground water*	Uinta	5950	89	89
Oil/Gas	Douglas Creek	1495	4544	4635
Oil/Gas	Castle Peak	560	5479	5572
Oil/Gas	Wasatch	-100	6139	6244

Any water encountered during drilling shall be sampled, analyzed and reported to the BLM Vernal office using State of Utah DOGM Form 7 *Report of Water Encountered during Drilling*. The following analyses shall be performed on any water encountered:

Flow rate (or blowtest)	Temperature	pH	TDS
Dissolved Iron	Dissolved Magnesium	Dissolved Bicarb.	Dissolved Sulfate
Dissolved Calcium	Dissolved Sodium	Dissolved Carbonate	Dissolved Chloride

All depths through the "Base of moderately saline ground water"*, along with any water encountered below that depth which is less than 10,000 TDS, shall be protected by the surface casing or by lifting the cement of the production casing into the surface casing.

*Base of Moderately Saline Groundwater from Howells, Longson and Hunt, 1981, Utah State Technical Publication 92: The Base of the Moderately Saline Water in the Uinta Basin, Utah



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3. PROPOSED CASING PROGRAM:

String	Hole	Casing	Top - MD	Bottom - MD	Weight lb/ft	Grade	Thread
Conductor	20"	14"	surface	54'	steel	Cond'r	none
Surface	12-1/4"	8-5/8"	surface	494'	24	J-55	STC
Production	7-7/8"	5-1/2"	surface	7100'	15.5	J-55	LTC

String	Hole	Casing	Collapse	Burst	Tensile
Surface	12-1/4"	8-5/8"	1,370 psi	2,950 psi	244,000 lb
Production	7-7/8"	5-1/2"	4,040 psi	4,810 psi	248,000 lb

- All casing will be new or inspected.
- The surface and production strings shall have a minimum of one (1) centralizer on each of the bottom three (3) joints.
- The production string shall have a minimum of one (1) centralizer for every three (3) joints from TD to the top of the "B" marker at 3988'MD.

4. PROPOSED CEMENTING PROGRAM:

String	Top	Cement Description	Sacks	Excess	Weight (ppg)	Yield (ft³/sk)
	Bottom		Vol (ft³)			
Conductor	0 ----- 54	Construction Grade Cement	Sufficient volumes to grout Conductor			
Surface	0 ----- 494	Class G +2% CaCl2 +0.25 lb/sk Cello Flake	227 ----- 265	30%	15.8	1.17
Production Lead	0 ----- 3988	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR¼ (LCM)	468 ----- 898	30%	12.5	1.92
Production Tail	3988 ----- 7100	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR¼ (LCM)	480 ----- 701	30%	13.4	1.46

- The 8-5/8" surface casing shall be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.
- The 5-1/2" production casing shall be cemented back to surface. In the event that during the primary cementing operation the cement does not circulate to surface, a remedial cementing operation shall be performed only if necessary to lift cement above the Trona at 2648'MD.



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5. MINIMUM PRESSURE CONTROL AND SAFETY EQUIPMENT:

- An 8", 2000 PSI, Double Ram BOPE with Hydraulic Closing Unit shall be used.
- The flowline shall have a minimum diameter of 10".
- Auxiliary equipment shall be a Kelly Cock, Bit Float, and a TIW valve with drill pipe threads.
- Spark arrestors shall be equipped on all engine exhausts within 100 feet of the wellbore.
- See attached 2,000 psi BOP schematic diagram.

BOPE TESTING PROCEDURE:

- The BOPE shall be tested by a professional tester to conform to the standards of Onshore Order #2.

6. MUD PROGRAM:

A. SURFACE HOLE

- The surface hole will be drilled with an air/mist system from 0' to 494'. All cutting shall be directed to pit.
- A trailer-mounted compressor with a capacity of 2000 CFM will be used. Compressor will have a safety shut-off valve located less than 15 feet from the driller's controls of the rig.
- The rat and mouse holes will be drilled with the air rig after surface casing is cemented.
- The 140 barrel water truck used with the deduster will be the source of kill fluid in the highly unlikely event of pressure being encountered during drilling of the surface hole.
- Operator requests the following variances from Onshore Order 2 part E during drilling of the surface hole. Operator will use air drilling techniques only on surface hole:
 - Operator requests a variance to regulations requiring the blooie line discharge to be 100' from the wellbore. Due to reduced location size, the blooie line discharge will be approximately 75' from the wellbore and securely anchored.
 - Operator requests a variance to regulations requiring an automatic igniter or continuous pilot light on the blooie line. A mister shall be on the end of the blooie line.
 - Operator requests a variance to regulations requiring compressors be located in the opposite direction from the blooie line; a minimum of 100' from the wellbore. Due to the reduced location size, the compressors shall be located as close as is reasonable to the opposite direction from the blooie line and 75' from the wellbore.
 - Operator requests a variance to regulations requiring a BOPE on the hole when drilling the surface hole. An air bowl shall be utilized on the diverter system in place of a BOPE.



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B. PRODUCTION HOLE

- The production hole shall be drilled with a freshwater polymer system from 494' to 7100'. LSND mud if conditions warrant.
- Clay inhibition and hole stability shall be achieved with a Diammonium Phosphate (DAP) additive or similar source of clay-stabilizing ions. Anticipated mud weight is 8.3-8.8 lbs/gal. although mud weight up to 10lbs/gal may be used if necessary to prevent wellbore wall instability due to the planned inclination of the well.
- All cuttings and circulating medium shall be directed into the reserve pit. Total Dissolved Solids (TDS) are anticipated to be less than 3000 PPM.
- Sufficient mud inventory will be maintained on location in either tanks or the reserve pit during the drilling of the production hole to handle any adverse conditions that may arise.
- If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite. Enough material shall be maintained on location to allow for the mudweight to be raised to 10.5 lbs/gal should need arise.
- During drilling operations, pit levels and flow from the well shall be monitored by instrumentation to include at least: a pit volume totalizer (PVT), a stroke counter, and a mud-flow indicator.
- A mud-gas separator shall be available on location.

C. HAZARDOUS MATERIALS AND POLLUTANTS

- Chromate additives **shall NOT** be used in the mud system on Indian lands without prior BLM approval to ensure adequate protection of freshwater aquifers.
- Chemicals subject to reporting under SARA Title III in an amounts equal to or greater than 10,000 pounds annually **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Hazardous substances specifically listed by the EPA as a hazardous waste, as defined in 40 CFR 261 (D), or any substances that through their use would lead to the generation of a hazardous waste, **shall NOT** be used in association with the drilling, testing, or completion of this well.

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7. EVALUATION PROGRAM:

Logs:	Triple Combo	TD to base of surface casing (AIT, DSN, CDL) Base of surface casing to surface (GR only)
Cores:	None planned	
DST:	None planned	
Testing:	Operator plans no testing until the completion phase of the well.	

8. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

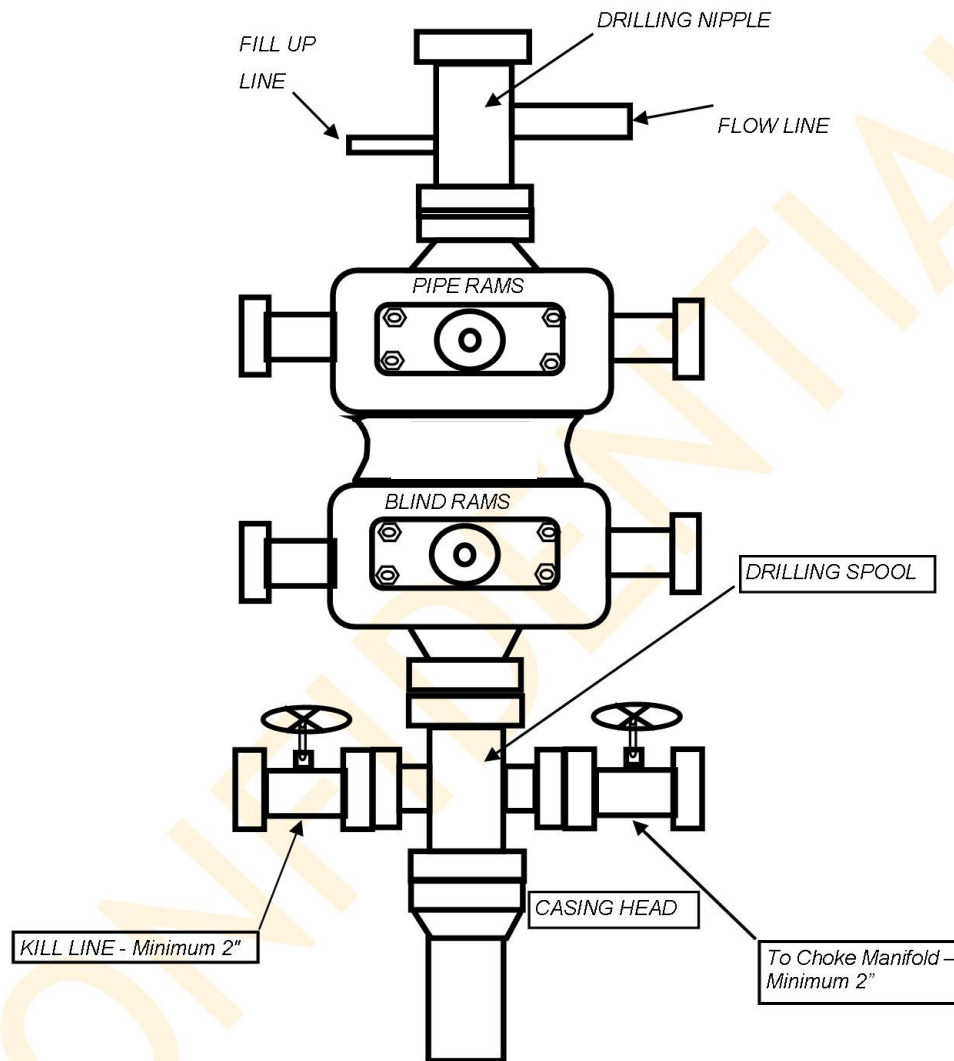
- Operator anticipates Bottom Hole Temperatures below 150°F, the maximum temperature for DAP drilling fluids.
- No H₂S has been encountered or is known to exist from previous drilling in the area at this depth.
- Maximum pressure for hydrocarbon bearing zones at native conditions in this area is approximately 1775 PSI (0.25 PSI/ft gradient).
- There exists in the area an abnormally pressured zone, at the approximate depth of the Trona marker (2648' MD). Pressure gradients up to 0.43 PSI/ft can be expected.

9. DIRECTIONAL WELL PLAN:

- Well shall be drilled directionally in order to limit surface disturbance.
- A Positive Displacement Motor with a bent sub of 1.25° to 1.75° will be used to control well path.
- A directional survey shall be taken at least one (1) time per 100' of drilling.
- Anti-collision equipment will not be used as there are no existing wells in the vicinity of the proposed well path.
- Directional drilling plan is attached.

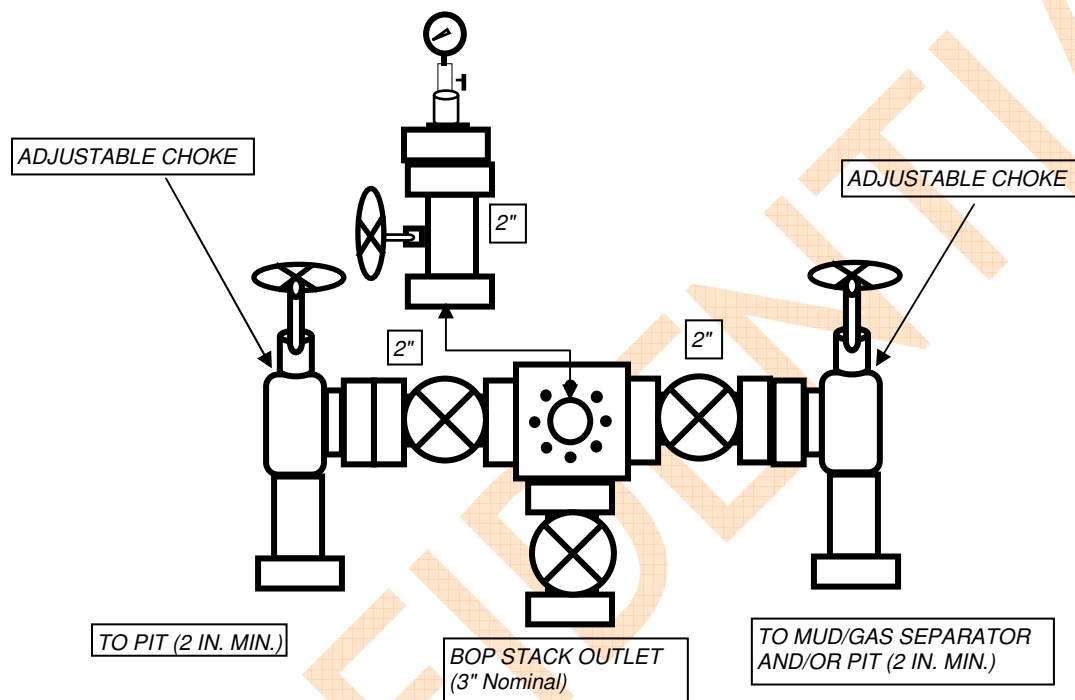
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NINE POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
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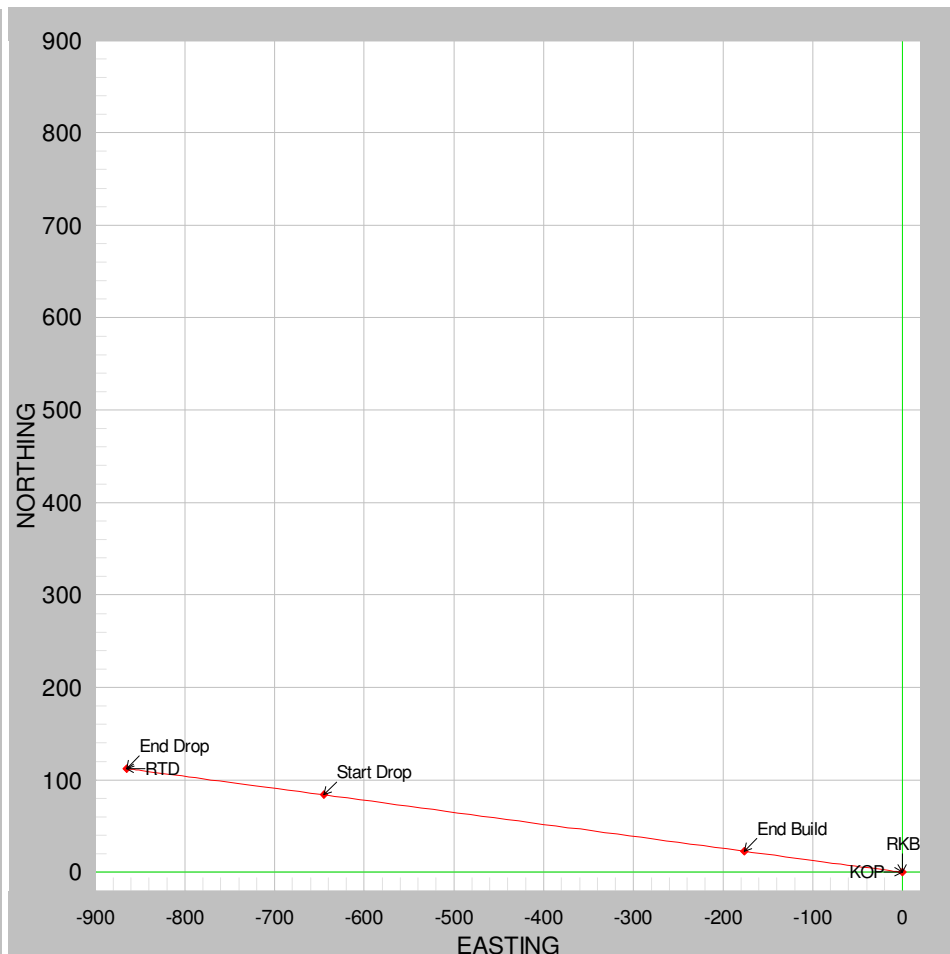
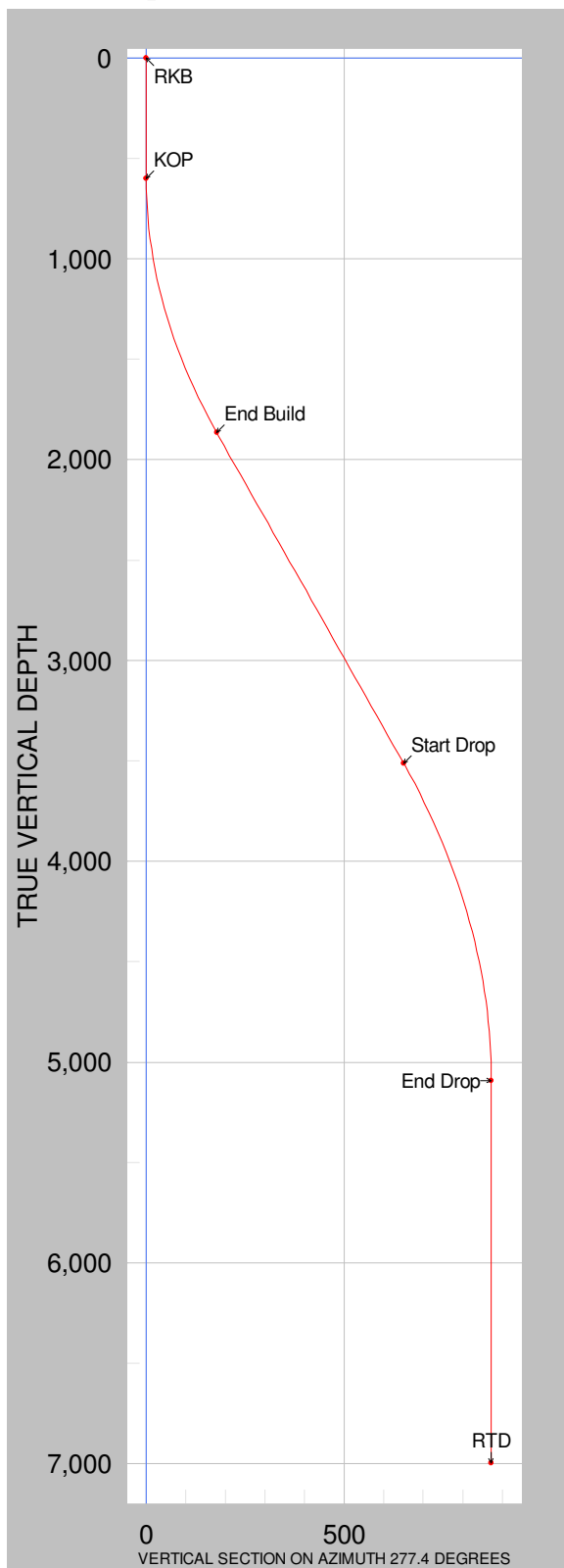
TYPICAL 2,000 p.s.i. BLOWOUT PREVENTER



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TYPICAL 2,000 p.s.i. CHOKE MANIFOLD





#	Reference	Type	MD	Inc	Azi	TVD	N	E	DLS	Vert S
0	RKB	Tie Point	0.00	0.00	0.00	0.00	0.00	0.00		0.00
1	KOP	Vertical	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00
2	End Build	Build	1880.00	16.00	277.40	1863.43	22.87	-176.08	1.25	177.56
3	Start Drop	Tangent	3595.00	16.00	277.40	3511.99	83.75	-644.87	0.00	650.28
4	End Drop	Drop	5195.00	0.00	0.00	5091.28	112.34	-864.97	1.00	872.24
5	RTD	Vertical	7100.00	0.00	0.00	6996.28	112.34	-864.97	0.00	872.24

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01-13-E4, Plan 1

Operator Petroglyph	Units feet, %/100ft	10:32 Tuesday, June 11, 2013 Page 1 of 5
Field	County Duchesne	Vertical Section Azimuth 277.4
Well Name 01-13-E4	State UT	Survey Calculation Method Minimum Curvature
Plan 1	Country USA	Database Access

Location 554' FSL 1526' FWL 01-5s-4w	MapZone	Lat Long Ref
Site	SurfaceX	Surface Long
Slot Name	SurfaceY	Surface Lat
Well Number	Z Datum	
Project	Surface Z	Ground Level

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
*** RKB (at MD = 0.00)										
0.00	0.00	0.0	0.00	0.00	0.00		0.00			
50.00	0.00	0.0	50.00	0.00	0.00	0.00	0.00			
100.00	0.00	0.0	100.00	0.00	0.00	0.00	0.00			
150.00	0.00	0.0	150.00	0.00	0.00	0.00	0.00			
200.00	0.00	0.0	200.00	0.00	0.00	0.00	0.00			
250.00	0.00	0.0	250.00	0.00	0.00	0.00	0.00			
300.00	0.00	0.0	300.00	0.00	0.00	0.00	0.00			
350.00	0.00	0.0	350.00	0.00	0.00	0.00	0.00			
400.00	0.00	0.0	400.00	0.00	0.00	0.00	0.00			
450.00	0.00	0.0	450.00	0.00	0.00	0.00	0.00			
500.00	0.00	0.0	500.00	0.00	0.00	0.00	0.00			
550.00	0.00	0.0	550.00	0.00	0.00	0.00	0.00			
*** KOP (at MD = 600.00)										
600.00	0.00	0.0	600.00	0.00	0.00	0.00	0.00			
650.00	0.63	277.4	650.00	0.04	-0.27	1.25	0.27			
700.00	1.25	277.4	699.99	0.14	-1.08	1.25	1.09			
750.00	1.88	277.4	749.97	0.32	-2.43	1.25	2.45			
800.00	2.50	277.4	799.94	0.56	-4.33	1.25	4.36			
850.00	3.13	277.4	849.88	0.88	-6.76	1.25	6.82			
900.00	3.75	277.4	899.79	1.26	-9.73	1.25	9.81			
950.00	4.38	277.4	949.66	1.72	-13.24	1.25	13.36			
1000.00	5.00	277.4	999.49	2.25	-17.30	1.25	17.44			
1050.00	5.63	277.4	1049.28	2.84	-21.89	1.25	22.07			
1100.00	6.25	277.4	1099.01	3.51	-27.02	1.25	27.24			
1150.00	6.88	277.4	1148.68	4.24	-32.68	1.25	32.96			
1200.00	7.50	277.4	1198.29	5.05	-38.89	1.25	39.21			
1250.00	8.13	277.4	1247.82	5.93	-45.63	1.25	46.01			
1300.00	8.75	277.4	1297.28	6.87	-52.90	1.25	53.35			
1350.00	9.38	277.4	1346.66	7.89	-60.71	1.25	61.22			
1400.00	10.00	277.4	1395.94	8.97	-69.06	1.25	69.64			
1450.00	10.63	277.4	1445.14	10.12	-77.93	1.25	78.59			
1500.00	11.25	277.4	1494.23	11.34	-87.34	1.25	88.07			
1550.00	11.88	277.4	1543.21	12.63	-97.28	1.25	98.10			
1600.00	12.50	277.4	1592.09	13.99	-107.75	1.25	108.65			
1650.00	13.13	277.4	1640.84	15.42	-118.74	1.25	119.74			

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01-13-E4, Plan 1

Operator Petroglyph	Units feet, %/100ft	10:32 Tuesday, June 11, 2013 Page 2 of 5
Field	County Duchesne	Vertical Section Azimuth 277.4
Well Name 01-13-E4	State UT	Survey Calculation Method Minimum Curvature
Plan 1	Country USA	Database Access

Location 554' FSL 1526' FWL 01-5s-4w	MapZone	Lat Long Ref
Site	SurfaceX	Surface Long
Slot Name	SurfaceY	Surface Lat
Well Number	Z Datum	
Project	Surface Z	Ground Level

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
1700.00	13.75	277.4	1689.47	16.92	-130.26	1.25	131.36			
1750.00	14.38	277.4	1737.97	18.48	-142.31	1.25	143.51			
1800.00	15.00	277.4	1786.34	20.12	-154.88	1.25	156.18			
1850.00	15.63	277.4	1834.56	21.82	-167.98	1.25	169.39			
*** END BUILD (at MD = 1880.00)										
1880.00	16.00	277.4	1863.43	22.87	-176.08	1.25	177.56			
1900.00	16.00	277.4	1882.65	23.58	-181.55	0.00	183.08			
1950.00	16.00	277.4	1930.72	25.35	-195.22	0.00	196.86			
2000.00	16.00	277.4	1978.78	27.13	-208.89	0.00	210.64			
2050.00	16.00	277.4	2026.84	28.90	-222.55	0.00	224.42			
2100.00	16.00	277.4	2074.91	30.68	-236.22	0.00	238.20			
2150.00	16.00	277.4	2122.97	32.45	-249.89	0.00	251.99			
2200.00	16.00	277.4	2171.03	34.23	-263.55	0.00	265.77			
2250.00	16.00	277.4	2219.10	36.00	-277.22	0.00	279.55			
2300.00	16.00	277.4	2267.16	37.78	-290.89	0.00	293.33			
2350.00	16.00	277.4	2315.22	39.55	-304.56	0.00	307.11			
2400.00	16.00	277.4	2363.28	41.33	-318.22	0.00	320.89			
2450.00	16.00	277.4	2411.35	43.10	-331.89	0.00	334.68			
2500.00	16.00	277.4	2459.41	44.88	-345.56	0.00	348.46			
2550.00	16.00	277.4	2507.47	46.66	-359.22	0.00	362.24			
2600.00	16.00	277.4	2555.54	48.43	-372.89	0.00	376.02			
2650.00	16.00	277.4	2603.60	50.21	-386.56	0.00	389.80			
2700.00	16.00	277.4	2651.66	51.98	-400.22	0.00	403.59			
2750.00	16.00	277.4	2699.73	53.76	-413.89	0.00	417.37			
2800.00	16.00	277.4	2747.79	55.53	-427.56	0.00	431.15			
2850.00	16.00	277.4	2795.85	57.31	-441.23	0.00	444.93			
2900.00	16.00	277.4	2843.92	59.08	-454.89	0.00	458.71			
2950.00	16.00	277.4	2891.98	60.86	-468.56	0.00	472.50			
3000.00	16.00	277.4	2940.04	62.63	-482.23	0.00	486.28			
3050.00	16.00	277.4	2988.10	64.41	-495.89	0.00	500.06			
3100.00	16.00	277.4	3036.17	66.18	-509.56	0.00	513.84			
3150.00	16.00	277.4	3084.23	67.96	-523.23	0.00	527.62			
3200.00	16.00	277.4	3132.29	69.73	-536.90	0.00	541.40			
3250.00	16.00	277.4	3180.36	71.51	-550.56	0.00	555.19			
3300.00	16.00	277.4	3228.42	73.28	-564.23	0.00	568.97			

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01-13-E4, Plan 1

Operator Petroglyph	Units feet, %/100ft	10:32 Tuesday, June 11, 2013 Page 3 of 5
Field	County Duchesne	Vertical Section Azimuth 277.4
Well Name 01-13-E4	State UT	Survey Calculation Method Minimum Curvature
Plan 1	Country USA	Database Access

Location 554' FSL 1526' FWL 01-5s-4w	MapZone	Lat Long Ref
Site	SurfaceX	Surface Long
Slot Name	SurfaceY	Surface Lat
Well Number	Z Datum	
Project	Surface Z	Ground Level

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
3350.00	16.00	277.4	3276.48	75.06	-577.90	0.00	582.75			
3400.00	16.00	277.4	3324.55	76.83	-591.56	0.00	596.53			
3450.00	16.00	277.4	3372.61	78.61	-605.23	0.00	610.31			
3500.00	16.00	277.4	3420.67	80.38	-618.90	0.00	624.10			
3550.00	16.00	277.4	3468.74	82.16	-632.56	0.00	637.88			
*** START DROP (at MD = 3595.00)										
3595.00	16.00	277.4	3511.99	83.75	-644.87	0.00	650.28			
3600.00	15.95	277.4	3516.80	83.93	-646.23	1.00	651.66			
3650.00	15.45	277.4	3564.93	85.67	-659.65	1.00	665.19			
3700.00	14.95	277.4	3613.18	87.36	-672.65	1.00	678.30			
3750.00	14.45	277.4	3661.55	89.00	-685.23	1.00	690.98			
3800.00	13.95	277.4	3710.02	90.58	-697.39	1.00	703.25			
3850.00	13.45	277.4	3758.60	92.10	-709.14	1.00	715.09			
3900.00	12.95	277.4	3807.28	93.57	-720.46	1.00	726.51			
3950.00	12.45	277.4	3856.05	94.99	-731.36	1.00	737.50			
4000.00	11.95	277.4	3904.92	96.35	-741.84	1.00	748.07			
4050.00	11.45	277.4	3953.88	97.65	-751.89	1.00	758.21			
4100.00	10.95	277.4	4002.93	98.90	-761.52	1.00	767.92			
4150.00	10.45	277.4	4052.06	100.10	-770.73	1.00	777.20			
4200.00	9.95	277.4	4101.27	101.24	-779.51	1.00	786.06			
4250.00	9.45	277.4	4150.56	102.33	-787.86	1.00	794.48			
4300.00	8.95	277.4	4199.91	103.36	-795.79	1.00	802.47			
4350.00	8.45	277.4	4249.34	104.33	-803.29	1.00	810.04			
4400.00	7.95	277.4	4298.83	105.25	-810.36	1.00	817.17			
4450.00	7.45	277.4	4348.38	106.11	-817.01	1.00	823.87			
4500.00	6.95	277.4	4397.98	106.92	-823.22	1.00	830.14			
4550.00	6.45	277.4	4447.64	107.67	-829.01	1.00	835.97			
4600.00	5.95	277.4	4497.35	108.36	-834.36	1.00	841.37			
4650.00	5.45	277.4	4547.10	109.00	-839.29	1.00	846.33			
4700.00	4.95	277.4	4596.89	109.59	-843.78	1.00	850.87			
4750.00	4.45	277.4	4646.73	110.12	-847.84	1.00	854.96			
4800.00	3.95	277.4	4696.59	110.59	-851.47	1.00	858.63			
4850.00	3.45	277.4	4746.49	111.00	-854.67	1.00	861.85			
4900.00	2.95	277.4	4796.41	111.36	-857.44	1.00	864.64			
4950.00	2.45	277.4	4846.35	111.67	-859.78	1.00	867.00			

SES - Stoner Engineering Software

01-13-E4, Plan 1

Operator Petroglyph	Units feet, %/100ft	10:32 Tuesday, June 11, 2013 Page 4 of 5
Field	County Duchesne	Vertical Section Azimuth 277.4
Well Name 01-13-E4	State UT	Survey Calculation Method Minimum Curvature
Plan 1	Country USA	Database Access

Location 554' FSL 1526' FWL 01-5s-4w	MapZone	Lat Long Ref
Site	SurfaceX	Surface Long
Slot Name	SurfaceY	Surface Lat
Well Number	Z Datum	
Project	Surface Z	Ground Level

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
5000.00	1.95	277.4	4896.32	111.91	-861.68	1.00	868.92			
5050.00	1.45	277.4	4946.29	112.10	-863.15	1.00	870.40			
5100.00	0.95	277.4	4996.28	112.24	-864.19	1.00	871.45			
5150.00	0.45	277.4	5046.28	112.32	-864.80	1.00	872.06			
*** END DROP (at MD = 5195.00)										
5195.00	0.00	0.0	5091.28	112.34	-864.97	1.00	872.24			
5200.00	0.00	0.0	5096.28	112.34	-864.97	0.00	872.24			
5250.00	0.00	0.0	5146.28	112.34	-864.97	0.00	872.24			
5300.00	0.00	0.0	5196.28	112.34	-864.97	0.00	872.24			
5350.00	0.00	0.0	5246.28	112.34	-864.97	0.00	872.24			
5400.00	0.00	0.0	5296.28	112.34	-864.97	0.00	872.24			
5450.00	0.00	0.0	5346.28	112.34	-864.97	0.00	872.24			
5500.00	0.00	0.0	5396.28	112.34	-864.97	0.00	872.24			
5550.00	0.00	0.0	5446.28	112.34	-864.97	0.00	872.24			
5600.00	0.00	0.0	5496.28	112.34	-864.97	0.00	872.24			
5650.00	0.00	0.0	5546.28	112.34	-864.97	0.00	872.24			
5700.00	0.00	0.0	5596.28	112.34	-864.97	0.00	872.24			
5750.00	0.00	0.0	5646.28	112.34	-864.97	0.00	872.24			
5800.00	0.00	0.0	5696.28	112.34	-864.97	0.00	872.24			
5850.00	0.00	0.0	5746.28	112.34	-864.97	0.00	872.24			
5900.00	0.00	0.0	5796.28	112.34	-864.97	0.00	872.24			
5950.00	0.00	0.0	5846.28	112.34	-864.97	0.00	872.24			
6000.00	0.00	0.0	5896.28	112.34	-864.97	0.00	872.24			
6050.00	0.00	0.0	5946.28	112.34	-864.97	0.00	872.24			
6100.00	0.00	0.0	5996.28	112.34	-864.97	0.00	872.24			
6150.00	0.00	0.0	6046.28	112.34	-864.97	0.00	872.24			
6200.00	0.00	0.0	6096.28	112.34	-864.97	0.00	872.24			
6250.00	0.00	0.0	6146.28	112.34	-864.97	0.00	872.24			
6300.00	0.00	0.0	6196.28	112.34	-864.97	0.00	872.24			
6350.00	0.00	0.0	6246.28	112.34	-864.97	0.00	872.24			
6400.00	0.00	0.0	6296.28	112.34	-864.97	0.00	872.24			
6450.00	0.00	0.0	6346.28	112.34	-864.97	0.00	872.24			
6500.00	0.00	0.0	6396.28	112.34	-864.97	0.00	872.24			
6550.00	0.00	0.0	6446.28	112.34	-864.97	0.00	872.24			
6600.00	0.00	0.0	6496.28	112.34	-864.97	0.00	872.24			

SES - Stoner Engineering Software

01-13-E4, Plan 1

Operator	Petroglyph	Units	feet, %/100ft	10:32 Tuesday, June 11, 2013	Page 5 of 5
Field		County	Duchesne	Vertical Section Azimuth	277.4
Well Name	01-13-E4	State	UT	Survey Calculation Method	Minimum Curvature
Plan	1	Country	USA	Database	Access

Location	554' FSL 1526' FWL 01-5s-4w	MapZone		Lat Long Ref	
Site		SurfaceX		Surface Long	
Slot Name	UWI	SurfaceY		Surface Lat	
Well Number	API	Z Datum			
Project		Surface Z		Ground Level	

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
6650.00	0.00	0.0	6546.28	112.34	-864.97	0.00	872.24			
6700.00	0.00	0.0	6596.28	112.34	-864.97	0.00	872.24			
6750.00	0.00	0.0	6646.28	112.34	-864.97	0.00	872.24			
6800.00	0.00	0.0	6696.28	112.34	-864.97	0.00	872.24			
6850.00	0.00	0.0	6746.28	112.34	-864.97	0.00	872.24			
6900.00	0.00	0.0	6796.28	112.34	-864.97	0.00	872.24			
6950.00	0.00	0.0	6846.28	112.34	-864.97	0.00	872.24			
7000.00	0.00	0.0	6896.28	112.34	-864.97	0.00	872.24			
7050.00	0.00	0.0	6946.28	112.34	-864.97	0.00	872.24			
*** RTD (at MD = 7100.00)										
7100.00	0.00	0.0	6996.28	112.34	-864.97	0.00	872.24			

CONFIDENTIAL

Print Form

BLM - Vernal Field Office - Notification Form

Operator Petroglyph Operating Co. Rig Name/# Aztec 673
Submitted By Geno Rowland Phone Number 970-361-3271
Well Name/Number Ute Tribal 01-13-E4
Qtr/Qtr SE/SW Section 01 Township 5S Range 4W
Lease Serial Number 14-20-H62-4743
API Number 43-013-51819

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time _____ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
- ☐ Intermediate Casing
- ☒ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 06/14/2013 12:30 AM ☐ PM ☒

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

RECEIVED

JUN 13 2013

DIV. OF OIL, GAS & MINING

Date/Time _____ AM ☐ PM ☐

Remarks Intend to run 5-1/2" Prod. Casing to a shoe depth of 7185' MD

CONFIDENTIAL

Print Form

BLM - Vernal Field Office - Notification Form

Operator Petroglyph Operating Rig Name/# Aztec 673
Submitted By Kenny Gray Phone Number 970-361-3271
Well Name/Number Ute Tribal 01-13-E4
Qtr/Qtr SE/SW Section 01 Township 5S Range ~~4~~W
Lease Serial Number 14-20-H62-4743
API Number 43-013-51819

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time _____ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time _____ AM ☐ PM ☐

BOPE

- ☒ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

RECEIVED

JUN 10 2013

DIV. OF OIL, GAS & MINING

Date/Time 06/10/2013 11:00 AM ☒ PM ☐

Remarks _____

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-4743			
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In			
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO		7. UNIT or CA AGREEMENT NAME:			
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500, Boise, ID, 83703		8. WELL NAME and NUMBER: Ute Tribal 01-13-E4			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0554 FSL 1526 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 01 Township: 05.0S Range: 04.0W Meridian: U		9. API NUMBER: 43013518190000			
9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON		COUNTY: DUCHESNE			
STATE: UTAH					
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 8/1/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Petroglyph Operating Company, Inc. requests permission to commingle oil and gas production from the Wasatch and Green River Formations on the well referenced above. Petroglyph Operating has made all necessary notifications in accordance with with Utah's Oil, Gas, and Mining regulation R649-3-22. Please see the attached Affidavit of Notice and Map.					
<div style="text-align: right;"> Accepted by the Utah Division of Oil, Gas and Mining Date: August 09, 2013 By: <u>Derek Quist</u> </div>					
NAME (PLEASE PRINT) Rodrigo Jurado		PHONE NUMBER 435 722-5302			
SIGNATURE N/A		TITLE Regulatory & Compliance Spc DATE 6/17/2013			

AFFIDAVIT OF NOTICE

State of Idaho)
) ss
County of Ada)

I, Vera Johnson, the affiant herein, being of lawful age and duly sworn upon his oath deposes and states as follows:

Vera Johnson is the Land Administrator for Petroglyph Energy, Inc., an Idaho Corporation, with headquarters located at 960 Broadway Avenue, Suite 500, Boise, ID 83706, and is duly authorized to make this Affidavit on behalf of said corporation.

Petroglyph Energy, Inc. has submitted notices to commingle production from the Wasatch and Green River formations in the following well lying within the boundaries of the Antelope Creek Plan of Cooperative Development – BIA Lease # UTE 14-20-H62-4743:

UTE TRIBAL 1-13-E4

This Affidavit is made in accordance with Utah's Oil, Gas and Mining regulation R649-3-22. As operator, Petroglyph Energy, Inc. has provided notices to the owner(s) of all contiguous oil and gas leases or drilling units overlying the pool for the aforementioned wells to the parties listed below:

Berry Petroleum Company
1999 Broadway, Suite 3700
Denver, CO 80202

Homeland Gas & Oil, Inc
3980 E. Main St. Hwy 40
Ballard, UT 84066

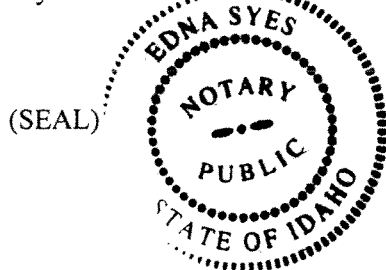
Petroglyph Energy, Inc.

Vera Johnson
Vera Johnson

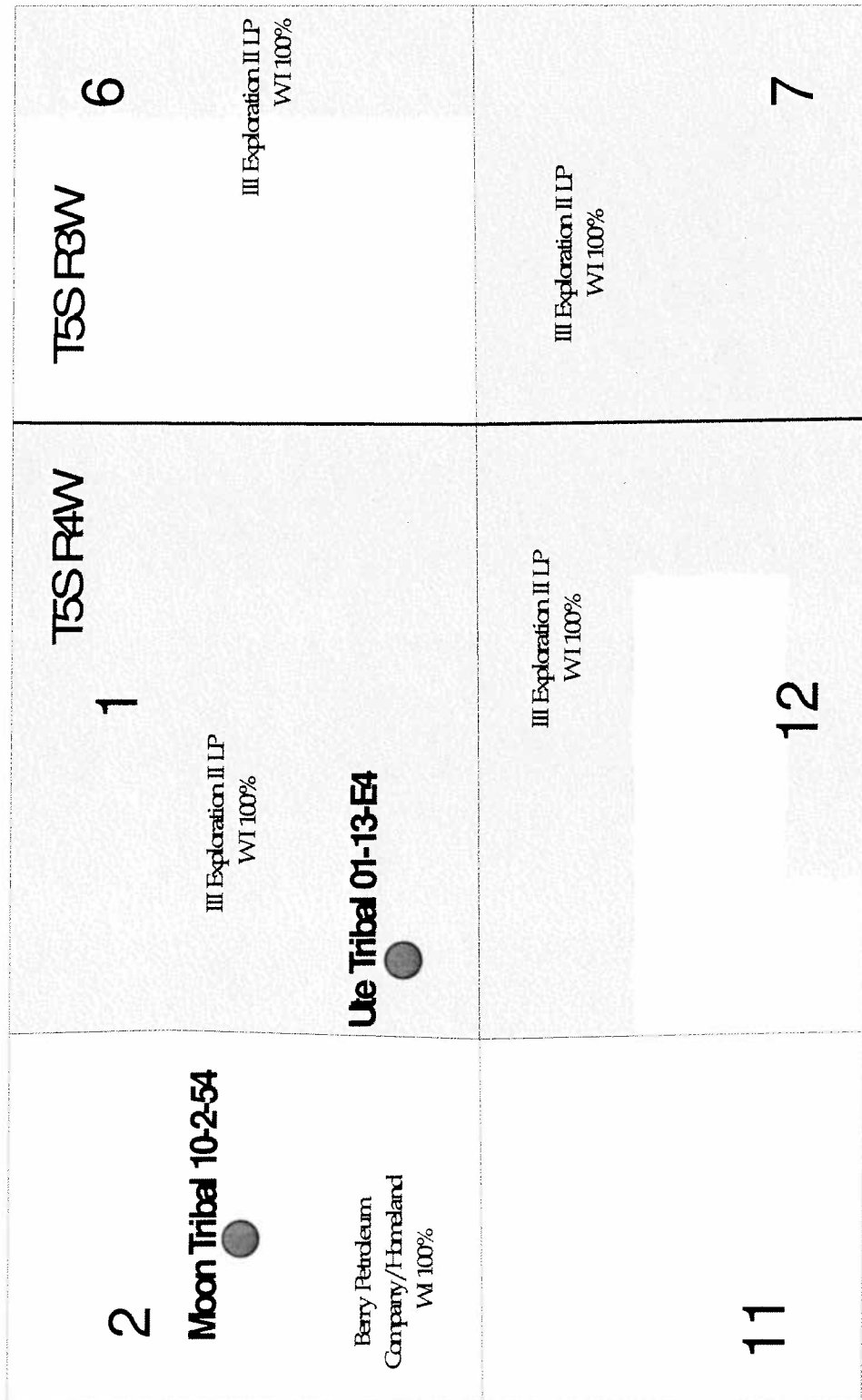
State of Idaho)
) ss
County of Ada)

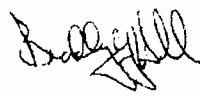
The above and foregoing Affidavit was subscribed and sworn to before me on the 14 day of June, 2013, by Vera Johnson.

Witness my hand and official seal



Edna Syes
Notary Public



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT <input type="checkbox"/>				
APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER Ute Tribal 01-13-E4				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="radio"/> REENTER P&A WELL <input type="radio"/> DEEPEN WELL <input type="radio"/>						3. FIELD OR WILDCAT BRUNDAGE CANYON				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME				
6. NAME OF OPERATOR PETROGLYPH OPERATING CO						7. OPERATOR PHONE 208 685-7685				
8. ADDRESS OF OPERATOR 960 Broadway Avenue, Ste 500, Boise, ID, 83703						9. OPERATOR E-MAIL ppowell@pgel.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) 14-20-H62-4743			11. MINERAL OWNERSHIP FEDERAL <input type="radio"/> INDIAN <input checked="" type="radio"/> STATE <input type="radio"/> FEE <input type="radio"/>			12. SURFACE OWNERSHIP FEDERAL <input type="radio"/> INDIAN <input type="radio"/> STATE <input type="radio"/> FEE <input checked="" type="radio"/>				
13. NAME OF SURFACE OWNER (if box 12 = "fee") Petroglyph Operating Co., Inc.						14. SURFACE OWNER PHONE (if box 12 = "fee") 435-722-2531				
15. ADDRESS OF SURFACE OWNER (if box 12 = "fee") P.O. Box 607, ,						16. SURFACE OWNER E-MAIL (if box 12 = "fee")				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = "INDIAN") Ute Indian Tribe			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="radio"/> (Submit Commingling Application) NO <input checked="" type="radio"/>			19. SLANT VERTICAL <input type="radio"/> DIRECTIONAL <input checked="" type="radio"/> HORIZONTAL <input type="radio"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		554 FSL 1526 FWL		SESW	1	50 S	40 W	U		
Top of Uppermost Producing Zone		660 FSL 660 FWL		SWSW	1	50 S	40 W	U		
At Total Depth		660 FSL 660 FWL		SWSW	1	50 S	40 W	U		
21. COUNTY DUCESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 554			23. NUMBER OF ACRES IN DRILLING UNIT 707				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1722			26. PROPOSED DEPTH MD: 6212 TVD: 6119				
27. ELEVATION - GROUND LEVEL 6025			28. BOND NUMBER LPM4138153			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-6342				
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Cond	20	14	0 - 54	5.0	Unknown	10.0	Class G	25	1.17	15.8
Surf	12.25	8.625	0 - 494	24.0	J-55 ST&C	10.0	Class G	227	1.17	15.8
Prod	7.875	5.5	0 - 6212	15.5	J-55 LT&C	10.0	Class G	468	1.92	12.5
							Class G	343	1.46	13.4
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5, IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Ed Trotter				TITLE Agent			PHONE 435 789-4120			
SIGNATURE				DATE 10/30/2012			EMAIL edtrotter@easlink.com			
API NUMBER ASSIGNED 43013518190000				APPROVAL  Permit Manager						

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-4743			
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In			
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO		7. UNIT or CA AGREEMENT NAME:			
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500, Boise, ID, 83703		8. WELL NAME and NUMBER: Ute Tribal 01-13-E4			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0554 FSL 1526 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 01 Township: 05.0S Range: 04.0W Meridian: U		9. API NUMBER: 43013518190000			
9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON		COUNTY: DUCHESNE			
STATE: UTAH					
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 7/18/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input checked="" type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input checked="" type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <div style="text-align: center;">Please see attached.</div> <div style="text-align: right;"> Accepted by the Utah Division of Oil, Gas and Mining Date: August 09, 2013 By: <u><i>Derek Quist</i></u> </div>					
NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc			
SIGNATURE N/A	DATE 7/12/2013				

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals

1 TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5 LEASE DESIGNATION AND SERIAL NUMBER 14-20-H62-4743
2 NAME OF OPERATOR Petroglyph Operating Company Inc.		6 IF INDIAN, ALLOTTEE OR TRIBE NAME Ute Indian Tribe
3 ADDRESS OF OPERATOR P O. Box 607 Roosevelt STATE UT ZIP 84066		7 UNIT or CA AGREEMENT NAME 14-20-H62-4650
4 LOCATION OF WELL FOOTAGES AT SURFACE 554' FSL, 1526' FWL		8 WELL NAME and NUMBER Ute Tribal 01-13-E4
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 1 5S 4W U		9 API NUMBER 4301351819
COUNTY Duchesne		10 FIELD AND POOL, OR WILDCAT Antelope Creek
STATE UTAH		

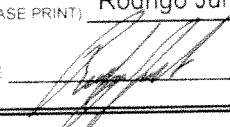
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start 7/18/2013	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion	<input type="checkbox"/> ALTER CASING	<input checked="" type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12 DESCRIBE PROPOSED OR COMPLETED OPERATIONS Clearly show all pertinent details including dates, depths, volumes, etc.

On or around 7/18/2013, depending on equipment availability, we plan to perforate and fracture/acid treat the following: 3595-98, 3609-11, 3626-31, 3669-72, 3966-69, 3973-76, 3994-98, 4071-75, 4391-93, 4397-4402, 4487-89, 4682-90, 4703-07, 4904-06, 4976-78, 4996-5000, 5027-29, 5514-17, 5523-30, 5542-48, 5591-5612, 5645-51, 5706-15, 5756-64, 5796-99, 5885-90, 5906-08, 5997-6000, 6040-42, 6057-61, 6076-78, 6080-83, 6097-99, 6113-15, 6142-45, 6156-60, 6569-71, 6585-94, 6636-42, 6835-44, 7128-50. All perforations will be made with Titan 3-1/8" guns containing 22.7 gram charges, 0.42"EHD, 23.54"TTT @ 4 SPF @ 120" Phased. We intend to fracture treat from 3595'-5908' & 6569'-7150' using Delta 140 15# gelled fluid containing 20/40 mesh sand. Volumes & amounts will be reported at a later date. From 5997'-6160' will be treated with 15% Hcl and flushed with the necessary amount of fresh water. Mineral ownership is the same from surface to the base of the Wasatch. The appropriate notifications have been made.

NAME (PLEASE PRINT) Rodrigo Jurado TITLE Regulatory Compliance Specialist

SIGNATURE  DATE 7/22/2013

(This space for State use only)

AFFIDAVIT OF NOTICE

State of Idaho)
) ss
County of Ada)

I, Vera Johnson, the affiant herein, being of lawful age and duly sworn upon his oath deposes and states as follows:

Vera Johnson is the Land Administrator for Petroglyph Energy, Inc., an Idaho Corporation, with headquarters located at 960 Broadway Avenue, Suite 500, Boise, ID 83706, and is duly authorized to make this Affidavit on behalf of said corporation.

Petroglyph Energy, Inc. has submitted notices to commingle production from the Wasatch and Green River formations in the following well lying within the boundaries of the Antelope Creek Plan of Cooperative Development – BIA Lease # UTE 14-20-H62-4743:

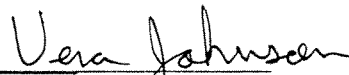
UTE TRIBAL 1-13-E4

This Affidavit is made in accordance with Utah's Oil, Gas and Mining regulation R649-3-22. As operator, Petroglyph Energy, Inc. has provided notices to the owner(s) of all contiguous oil and gas leases or drilling units overlying the pool for the aforementioned wells to the parties listed below:

Berry Petroleum Company
1999 Broadway, Suite 3700
Denver, CO 80202

Homeland Gas & Oil, Inc
3980 E. Main St. Hwy 40
Ballard, UT 84066

Petroglyph Energy, Inc.

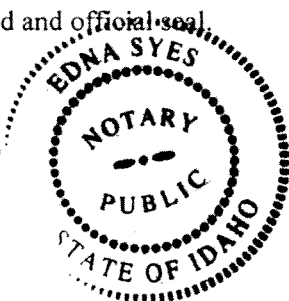

Vera Johnson

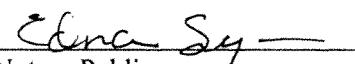
State of Idaho)
) ss
County of Ada)


The above and foregoing Affidavit was subscribed and sworn to before me on the 14 day of June, 2013, by Vera Johnson.

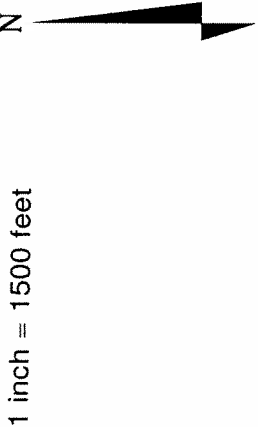
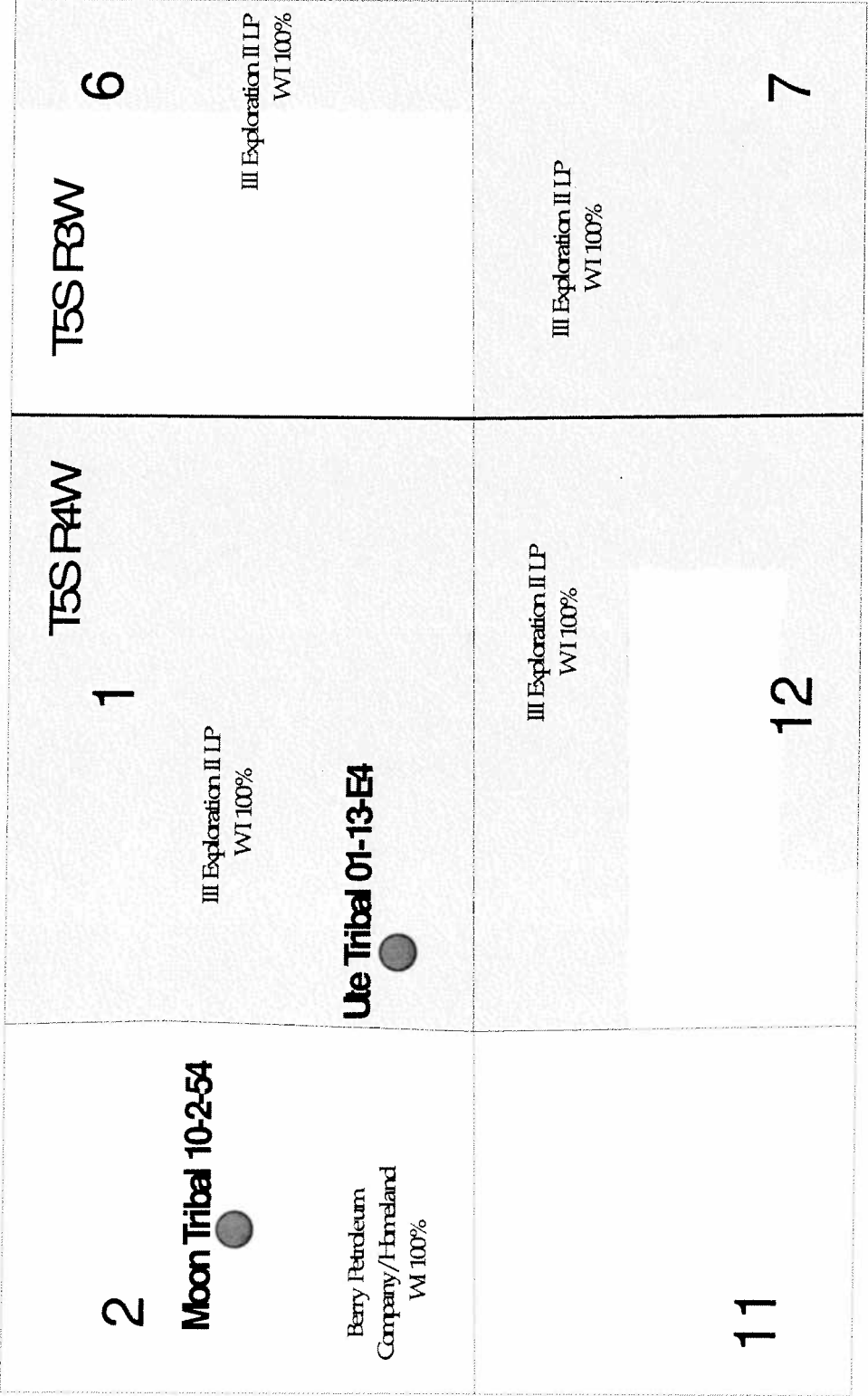
Witness my hand and official seal


(SEAL)




Notary Public

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT <input type="checkbox"/>				
APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER Ute Tribal 01-13-E4				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="radio"/> REENTER P&A WELL <input type="radio"/> DEEPEN WELL <input type="radio"/>						3. FIELD OR WILDCAT BRUNDAGE CANYON				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME				
6. NAME OF OPERATOR PETROGLYPH OPERATING CO						7. OPERATOR PHONE 208 685-7685				
8. ADDRESS OF OPERATOR 960 Broadway Avenue, Ste 500, Bosle, ID, 83703						9. OPERATOR E-MAIL ppowell@pgei.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) 14-20-H62-4743			11. MINERAL OWNERSHIP FEDERAL <input type="radio"/> INDIAN <input checked="" type="radio"/> STATE <input type="radio"/> FEE <input type="radio"/>			12. SURFACE OWNERSHIP FEDERAL <input type="radio"/> INDIAN <input type="radio"/> STATE <input type="radio"/> FEE <input checked="" type="radio"/>				
13. NAME OF SURFACE OWNER (If box 12 = 'fee') Petroglyph Operating Co., Inc.						14. SURFACE OWNER PHONE (If box 12 = 'fee') 435-722-2531				
15. ADDRESS OF SURFACE OWNER (If box 12 = 'fee') P.O. Box 607, ,						16. SURFACE OWNER E-MAIL (If box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (If box 12 = 'INDIAN') Ute Indian Tribe			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="radio"/> (Submit Commingling Application) NO <input checked="" type="radio"/>			19. SLANT VERTICAL <input type="radio"/> DIRECTIONAL <input checked="" type="radio"/> HORIZONTAL <input type="radio"/>				
20. LOCATION OF WELL	FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN			
LOCATION AT SURFACE	554 FSL 1526 FWL		SESW	1	5.0 S	4.0 W	U			
Top of Uppermost Producing Zone	660 FSL 660 FWL		SWSW	1	5.0 S	4.0 W	U			
At Total Depth	660 FSL 660 FWL		SWSW	1	5.0 S	4.0 W	U			
21. COUNTY DUCHESE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 554		23. NUMBER OF ACRES IN DRILLING UNIT 707					
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1722		26. PROPOSED DEPTH MD: 6212 TVD: 6119					
27. ELEVATION - GROUND LEVEL 6025			28. BOND NUMBER LPM4138153		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8342					
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Cond	20	14	0 - 54	5.0	Unknown	10.0	Class G	25	1.17	15.8
Surf	12.25	8.625	0 - 494	24.0	J-55 ST&C	10.0	Class G	227	1.17	15.8
Prod	7.875	5.5	0 - 6212	15.5	J-55 LT&C	10.0	Class G	468	1.92	12.5
							Class G	343	1.46	13.4
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5, IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Ed Trotter				TITLE Agent			PHONE 435 789-4120			
SIGNATURE				DATE 10/30/2012			EMAIL edtrotter@easilink.com			
API NUMBER ASSIGNED 43013518190000				APPROVAL  Permit Manager						



PETROGLYPH 	ANTELOPE CREEK DUCHESTER COUNTY, UTAH
Application for Commingling Ute Tribal 01-13-E4	
Checked by: JG	Checked by: JG
Date: 1-Aug-13	Date: 1-Aug-13

PETROGLYPH

EXECUTIVE OFFICES



June 14, 2013

Homeland Gas & Oil, Inc.
3980 E. Main St. Hwy 40
Ballard, UT 84066

Re: Notice to Commingle Production
UTE TRIBAL 01-13-E4

Gentlemen:

Petroglyph Energy, Inc. (Petroglyph) is submitting an Application to Commingle from the Wasatch and Green River formations in the above referenced well. In accordance with Utah Administration Rule R649-3-22 relative to completion into two or more pools, Petroglyph is hereby providing written notice to Homeland Gas & Oil, Inc. of the submission. Please see enclosed copies of the Application to Commingle for the above referenced well.

Please contact Vera Johnson at 208-685-7615 if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads "Vera Johnson".

Enclosures

PETROGLYPH ENERGY, INC.

PETROGLYPH

EXECUTIVE OFFICES

June 14, 2013

Berry Petroleum Company
1999 Broadway, Suite 3700
Denver, CO 8002

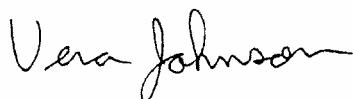
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Please contact Vera Johnson at 208-685-7615 if you have any questions.

Sincerely,



Enclosures

PETROGLYPH ENERGY, INC.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-4743
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500 , Boise, ID, 83703		8. WELL NAME and NUMBER: Ute Tribal 01-13-E4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0554 FSL 1526 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 01 Township: 05.0S Range: 04.0W Meridian: U		9. API NUMBER: 43013518190000
PHONE NUMBER: 208 685-7685 Ext		9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON
COUNTY: DUCHESNE		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/17/2013	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The date of first production for this well was 8/17/2013.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY August 20, 2013		
NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A	DATE 8/20/2013	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-4743
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2. NAME OF OPERATOR: PETROGLYPH OPERATING CO		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500, Boise, ID, 83703		8. WELL NAME and NUMBER: Ute Tribal 01-13-E4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0554 FSL 1526 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 01 Township: 05.0S Range: 04.0W Meridian: U		9. API NUMBER: 43013518190000
PHONE NUMBER: 208 685-7685 Ext		9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON
COUNTY: DUCHESNE		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/13/2013	<input type="checkbox"/> ALTER CASING
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR
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	<input checked="" type="checkbox"/> FRACTURE TREAT
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	<input type="checkbox"/> RECLAMATION OF WELL SITE
	<input type="checkbox"/> PLUG BACK
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	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF
	<input type="checkbox"/> SI TA STATUS EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please see attached.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY
 October 08, 2013**

NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A	DATE 10/8/2013	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-4743
2. NAME OF OPERATOR: Petroglyph Operating Company Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe
3. ADDRESS OF OPERATOR: P.O. Box 607 CITY Roosevelt STATE UT ZIP 84066		7. UNIT or CA AGREEMENT NAME: 14-20-H62-4650
4. LOCATION OF WELL FOOTAGES AT SURFACE: 554' FSL 1526' FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 1 5S 4W U		8. WELL NAME and NUMBER: Ute Tribal 01-13-E4
PHONE NUMBER: (435) 722-2531		9. API NUMBER: 4301351819
		10. FIELD AND POOL, OR WILDCAT: Antelope Creek
		COUNTY: Duchesne
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> ALTER CASING	<input checked="" type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON	
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 8/13/2013	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____	
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION		

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On 7/9/2013 Petroglyph Operating ran GR/CBL and found ETOC @ Surface', then on 7/15/2013 perforated the following: 6835-44, 6636-42, 6585-94, 6569-71, 6456-60, 6142-45, 6113-15, 6097-99, 6080-83, 6076-78, 6057-61, 6040-42, 5997-6000, 5906-08, 5890-95, 5796-99, 5756-64, 5706-15, 5645-51, 5591-12, 5542-48, 5523-30, 5514-17, 5027-29, 4996-5000, 4976-78, 4904-06, 4703-07, 4682-90, 4487-89, 4397-4402, 4391-93, 4071-75, 3994-98, 3973-76, 3966-69, 3669-72, 3626-31, 3609-11 & 3595-98. We isolated and fracture treated the following intervals:
 6,569'-6,844': 1,009 Bbls of fluid containing 50,000#'s of sand,
 5,997'-6,160': 976 Bbls of 15% Hcl & 139 Bbl fresh water overflush,
 5,706'-5,908': 636 Bbls of fluid containing 45,200#'s of sand,
 5,514'-5,651': 955 Bbls of fluid containing 88,600#'s of sand,
 4,682'-4,707': 511 Bbls of fluid containing 39,999#'s of sand,
 4,391'-4,489': 473 Bbls of fluid containing 25,800#'s of sand,
 3,966'-4,075': 547 Bbls of fluid containing 30,000#'s of sand,
 3,595'-3,672': 455 Bbls of fluid containing 37,080#'s of sand.
 Isolation plugs used were Halliburton 8K Composite Plugs, fluid used was Dyna LP 22 15# gelled fluid, sand used was 20/40 Mesh Premium White Sand and guns used were Titan 3-1/8", containing 22.7 gram charges, 0.42" EHD, 23.54" TTP @ 4 SPF @ 120* Phased. All plugs were drilled out and cleaned out to PBTD, 7,137'. The well was swabbed until a good oil cut was see, then ran a pump on 8/13/2013 and put to pump.

NAME (PLEASE PRINT) <u>Rodrigo Jurado</u>	TITLE <u>Regulatory Compliance Specialist</u>
SIGNATURE 	DATE <u>10/8/2013</u>

(This space for State use only)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:
14-20-H62-4743

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Ute Indian Tribe

7. UNIT or CA AGREEMENT NAME
14-20-H62-4650

8. WELL NAME and NUMBER:
Ute Tribal 01-13-E4

9. API NUMBER:
4301351819

10. FIELD AND POOL, OR WILDCAT

11. QTR/QTR, SECTION, TOWNSHIP, RANGE,
MERIDIAN:
SESW 1 5S 4W U

12. COUNTY
Duchesne

13. STATE
UTAH

17. ELEVATIONS (DF, RKB, RT, GL):
6,039' RKB

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER _____

b. TYPE OF WORK: NEW WELL ☒ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER _____

2. NAME OF OPERATOR:
Petroglyph Operating Company, Inc.

3. ADDRESS OF OPERATOR: P.O. Box 607 CITY Roosevelt STATE UT ZIP 84066
PHONE NUMBER: (435) 722-2531

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 554' FSL, 1526' FWL
AT TOP PRODUCING INTERVAL REPORTED BELOW: 632' FSL, 874' FWL SWSW Sec. 1 T5S R4W
AT TOTAL DEPTH: 658' FSL, 647' FWL SWSW Sec 1 T5S R4W

14. DATE SPUDDED: 5/8/2013
15. DATE T.D. REACHED: 6/13/2013
16. DATE COMPLETED: 8/13/2013
ABANDONED ☐ READY TO PRODUCE ☒

18. TOTAL DEPTH: MD 7,200
TVD 7,098
19. PLUG BACK T.D.: MD 7,137
TVD 7,035
20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE MD
PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

ACTR, SDDSN, Borehole Volume Plot, Cement Bond Log

23.
WAS WELL CORED? NO ☒ YES ☐ (Submit analysis)
WAS DST RUN? NO ☒ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☐ YES ☒ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
26	16 J-55	75	0	74					Conductor
12.25	8.625 J-55	24	0	521		G 360	74	0	
7.875	5.5 J-55	15.5	0	7,185		G 1,116	334	78'	CBL

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.875	6,884							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) Wasatch	6,569	6,844	6,467	6,742	6,569 6,844	0.42	104	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B) Green River	3,595	6,160	3,512	6,058	3,595 6,160	0.42	612	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6,569'-6,844'	1,009 Bbls of Dyna LP 22 15# gelled fluid containing 50,000#'s of 20/40 mesh sand.
5,997'-6160'	976 Bbls of 15% Hcl followed by 139 Bbls fresh water over flush.
3,595'-5,908'	3,577 Bbls of Dyna LP 22 15# gelled fluid containing 266,679#'s of 20/40 mesh sand.

29. ENCLOSED ATTACHMENTS:

☒ ELECTRICAL/MECHANICAL LOGS
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION
☐ GEOLOGIC REPORT
☐ CORE ANALYSIS
☐ DST REPORT
☒ DIRECTIONAL SURVEY
☒ OTHER: UDOGM Form 7

30. WELL STATUS:

POW

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 8/17/2013	TEST DATE: 9/3/2013	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL – BBL: 55	GAS – MCF: 26	WATER – BBL: 59	PROD. METHOD: Rod Pump
CHOKE SIZE: 28/64	TBG. PRESS. 360	CSG. PRESS. 360	API GRAVITY 40.50	BTU – GAS 1	GAS/OIL RATIO 473	24 HR PRODUCTION RATES: →	INTERVAL STATUS: Open

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

Used for Fuel

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				Mahogany	2,823
				Garden Gulch	3,574
				B Marker	4,000
				X Marker	4,504
				Y Marker	4,541
				Douglas Creek	4,643
				B Lime	5,049
				Castle Peak	5,583
				Basal Carbonate	5,987
				Wasatch	6,261

35. ADDITIONAL REMARKS (Include plugging procedure)

All Frac and Perf info is condensed. Please see NOI and Subsequent Frac Sundry for detailed record.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Rodrigo JuradoTITLE Regulatory Compliance SpecialistSIGNATURE DATE 10/23/2013

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well name and number: Ute Tribal 01-13-E4API number: 4301351819Well Location: QQ SESW Section 1 Township 5S Range 4W County DuchesneWell operator: Petroglyph Operating Company, Inc.Address: P.O. Box 607city Roosevelt state UT zip 84066Phone: (435) 722-2531Drilling contractor: ProPetro ServicesAddress: 1422 East 1500 Southcity Vernal state UT zip 84078Phone: (435) 789-1735

Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
0	515	0	No Water Encountered

Formation tops:
(Top to Bottom)

1	2	3
4	5	6
7	8	9
10	11	12

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I hereby certify that this report is true and complete to the best of my knowledge.

NAME (PLEASE PRINT) Rodrigo JuradoTITLE Regulatory Compliance SpecialistSIGNATURE DATE 5/31/2013



Job Number: UT131013
 Company: Petroglyph
 Lease/Well: Ute Tribal 01-13-E4
 Location: Sec. 1, T5S, R4W
 Rig Name: Aztec 673
 RKB: 6040
 G.L. or M.S.L.: 6025

State/Country: Utah / USA
 Declination: 11.16
 Grid: True
 File name: C:\DOCUME~1\PAYZONE\DESKTOP\UTETRI~1\UT131013.SVY
 Date/Time: 13-Jun-13 / 20:26
 Curve Name: Actual_Ute Tribal_01-13-E4

Payzone Directional Services LLC

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
 Vertical Section Plane 277.40
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
528.00	1.10	178.90	527.97	-5.07	.10	-.75	5.07	178.90	.21
590.00	.97	178.77	589.96	-6.19	.12	-.92	6.19	178.89	.21
650.00	1.10	221.75	649.95	-7.12	-.25	-.67	7.13	182.03	1.28
712.00	1.76	268.68	711.93	-7.59	-1.60	.61	7.76	191.91	2.08
772.00	3.12	273.34	771.88	-7.52	-4.15	3.15	8.59	208.92	2.29
832.00	3.38	284.59	831.78	-6.98	-7.49	6.53	10.24	227.05	1.15
893.00	4.17	283.14	892.65	-6.02	-11.39	10.52	12.89	242.16	1.30
954.00	4.83	287.00	953.46	-4.76	-16.01	15.26	16.70	253.43	1.19
1015.00	6.11	284.94	1014.18	-3.18	-21.60	21.01	21.83	261.64	2.12

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
1077.00	6.99	283.27	1075.77	-1.46	-28.46	28.04	28.50	267.07	1.45
1139.00	7.78	277.78	1137.26	-.03	-36.29	35.99	36.29	269.96	1.71
1201.00	8.13	274.44	1198.66	.88	-44.82	44.56	44.83	271.13	.93
1263.00	8.70	278.74	1260.00	1.93	-53.83	53.63	53.86	272.06	1.37
1325.00	9.36	275.97	1321.23	3.17	-63.48	63.36	63.56	272.86	1.27
1387.00	10.42	277.64	1382.31	4.44	-74.05	74.00	74.18	273.43	1.77
1450.00	11.16	275.97	1444.19	5.83	-85.76	85.80	85.96	273.89	1.28
1511.00	11.38	275.71	1504.02	7.05	-97.62	97.71	97.87	274.13	.37
1573.00	11.47	275.58	1564.79	8.25	-109.84	109.99	110.15	274.30	.15
1635.00	12.26	275.89	1625.46	9.53	-122.52	122.73	122.89	274.45	1.28
1697.00	12.92	276.06	1685.97	10.94	-135.96	136.24	136.40	274.60	1.07
1759.00	13.05	277.60	1746.39	12.59	-149.79	150.17	150.32	274.81	.60
1821.00	13.10	278.96	1806.78	14.61	-163.67	164.19	164.32	275.10	.50
1883.00	13.97	278.92	1867.06	16.87	-178.01	178.70	178.80	275.41	1.40
1945.00	14.72	275.97	1927.12	18.85	-193.24	194.05	194.15	275.57	1.69
2007.00	15.86	276.81	1986.93	20.67	-209.48	210.40	210.50	275.64	1.87
2069.00	16.70	276.10	2046.44	22.62	-226.75	227.78	227.88	275.70	1.39
2131.00	16.00	274.52	2105.93	24.24	-244.13	245.22	245.33	275.67	1.34
2193.00	15.60	275.32	2165.59	25.69	-260.95	262.08	262.21	275.62	.73
2255.00	15.21	274.32	2225.36	27.07	-277.36	278.54	278.68	275.58	.76
2317.00	15.42	274.74	2285.16	28.37	-293.68	294.89	295.05	275.52	.38
2380.00	15.82	274.44	2345.83	29.73	-310.59	311.83	312.01	275.47	.65
2442.00	16.52	274.79	2405.38	31.12	-327.80	329.08	329.28	275.42	1.14
2504.00	16.61	275.14	2464.81	32.65	-345.41	346.74	346.95	275.40	.22
2566.00	16.35	277.86	2524.26	34.63	-362.88	364.32	364.53	275.45	1.31
2628.00	15.73	275.80	2583.85	36.68	-379.89	381.45	381.65	275.51	1.36
2690.00	16.83	279.31	2643.36	38.98	-397.11	398.82	399.02	275.61	2.38
2752.00	16.33	277.10	2702.79	41.51	-414.61	416.51	416.69	275.72	1.30
2814.00	15.90	275.45	2762.35	43.39	-431.72	433.71	433.89	275.74	1.01
2877.00	16.57	275.45	2822.84	45.06	-449.25	451.31	451.51	275.73	1.06
2939.00	17.01	277.07	2882.19	47.02	-467.05	469.22	469.41	275.75	1.04
3001.00	16.57	278.92	2941.55	49.51	-484.79	487.13	487.31	275.83	1.12
3062.00	16.52	279.31	3000.03	52.26	-501.94	504.49	504.65	275.94	.20
3124.00	16.61	279.14	3059.45	55.09	-519.39	522.16	522.30	276.05	.16

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
3187.00	16.66	279.58	3119.82	58.03	-537.18	540.18	540.31	276.17	.22
3249.00	16.35	278.51	3179.26	60.80	-554.58	557.79	557.90	276.26	.70
3311.00	16.48	280.02	3238.73	63.62	-571.87	575.30	575.39	276.35	.72
3373.00	15.60	281.47	3298.32	66.81	-588.70	592.40	592.47	276.47	1.56
3435.00	15.60	280.41	3358.04	69.97	-605.07	609.04	609.10	276.60	.46
3497.00	14.96	278.79	3417.85	72.70	-621.17	625.36	625.41	276.68	1.24
3559.00	14.46	279.62	3477.81	75.21	-636.71	641.10	641.14	276.74	.88
3621.00	14.15	281.12	3537.89	77.97	-651.78	656.40	656.43	276.82	.78
3683.00	13.40	278.00	3598.11	80.43	-666.33	671.14	671.17	276.88	1.70
3745.00	12.48	277.47	3658.53	82.30	-680.09	685.03	685.05	276.90	1.50
3807.00	12.96	279.89	3719.01	84.37	-693.58	698.67	698.69	276.94	1.16
3869.00	12.74	280.24	3779.46	86.78	-707.16	712.44	712.46	277.00	.38
3931.00	12.30	281.34	3839.98	89.29	-720.36	725.86	725.87	277.07	.81
3993.00	12.35	280.41	3900.56	91.79	-733.36	739.07	739.08	277.13	.33
4055.00	11.95	281.12	3961.17	94.22	-746.18	752.10	752.10	277.20	.69
4118.00	11.69	280.33	4022.83	96.63	-758.86	764.98	764.98	277.26	.49
4180.00	10.55	280.15	4083.67	98.75	-770.62	776.92	776.92	277.30	1.84
4242.00	9.84	278.04	4144.69	100.49	-781.46	787.89	787.89	277.33	1.29
4304.00	9.89	276.00	4205.77	101.79	-792.00	798.51	798.51	277.32	.57
4366.00	8.70	273.12	4266.96	102.60	-801.97	808.51	808.51	277.29	2.06
4428.00	8.00	280.70	4328.30	103.66	-810.90	817.49	817.49	277.28	2.10
4490.00	7.03	283.00	4389.77	105.31	-818.83	825.58	825.58	277.33	1.64
4552.00	6.50	281.16	4451.33	106.85	-825.97	832.85	832.85	277.37	.92
4614.00	6.30	272.60	4512.95	107.68	-832.81	839.75	839.75	277.37	1.57
4676.00	5.62	273.03	4574.61	107.99	-839.24	846.16	846.16	277.33	1.10
4738.00	5.36	276.02	4636.33	108.46	-845.15	852.08	852.09	277.31	.62
4800.00	4.61	277.00	4698.09	109.07	-850.51	857.47	857.47	277.31	1.22
4862.00	3.43	281.03	4759.94	109.72	-854.80	861.81	861.81	277.31	1.96
4924.00	2.77	270.53	4821.85	110.09	-858.12	865.15	865.15	277.31	1.40
4986.00	2.15	258.31	4883.79	109.87	-860.76	867.74	867.74	277.27	1.30
5048.00	2.24	263.49	4945.75	109.50	-863.10	870.01	870.02	277.23	.35
5110.00	1.63	255.50	5007.71	109.14	-865.16	872.01	872.01	277.19	1.07
5172.00	1.42	286.45	5069.69	109.14	-866.75	873.59	873.59	277.18	1.35
5235.00	.04	341.89	5132.69	109.38	-867.50	874.37	874.37	277.19	2.22

RECEIVED: Oct. 23, 2013

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
5296.00	.53	109.11	5193.68	109.31	-867.24	874.10	874.10	277.18	.91
5359.00	.88	161.23	5256.68	108.75	-866.81	873.60	873.61	277.15	1.10
5421.00	1.45	143.83	5318.67	107.67	-866.20	872.85	872.86	277.09	1.07
5483.00	1.49	161.11	5380.65	106.27	-865.47	871.95	871.97	277.00	.72
5545.00	.66	178.15	5442.64	105.15	-865.20	871.54	871.57	276.93	1.42
5607.00	.79	229.48	5504.63	104.52	-865.51	871.77	871.80	276.89	1.03
5669.00	.75	222.10	5566.63	103.94	-866.11	872.28	872.32	276.84	.17
5731.00	.75	343.96	5628.62	104.03	-866.49	872.68	872.72	276.85	2.11
5793.00	.35	28.83	5690.62	104.59	-866.51	872.77	872.80	276.88	.90
5855.00	.44	343.47	5752.62	104.98	-866.49	872.80	872.83	276.91	.51
5917.00	.31	319.61	5814.62	105.34	-866.67	873.02	873.05	276.93	.32
5979.00	.79	239.67	5876.62	105.25	-867.15	873.48	873.51	276.92	1.28
6042.00	.35	235.90	5939.61	104.92	-867.68	873.97	874.00	276.89	.70
6104.00	.83	338.73	6001.61	105.23	-868.00	874.32	874.35	276.91	1.56
6165.00	.40	11.73	6062.61	105.85	-868.12	874.52	874.55	276.95	.89
6228.00	.44	292.37	6125.61	106.16	-868.30	874.74	874.76	276.97	.85
6290.00	.62	332.75	6187.60	106.55	-868.67	875.16	875.18	276.99	.65
6352.00	.22	292.81	6249.60	106.89	-868.93	875.46	875.48	277.01	.76
6414.00	.48	266.26	6311.60	106.92	-869.30	875.83	875.85	277.01	.48
6476.00	.48	307.57	6373.60	107.06	-869.77	876.31	876.33	277.02	.55
6538.00	.66	246.05	6435.60	107.08	-870.30	876.84	876.86	277.01	.97
6600.00	.88	274.57	6497.59	106.97	-871.10	877.62	877.64	277.00	.70
6662.00	.48	239.75	6559.59	106.88	-871.80	878.30	878.33	276.99	.90
6724.00	.62	274.44	6621.58	106.77	-872.36	878.84	878.87	276.98	.57
6786.00	.75	267.71	6683.58	106.78	-873.10	879.58	879.60	276.97	.25
6848.00	.57	250.97	6745.57	106.67	-873.79	880.25	880.28	276.96	.42
6910.00	.79	223.24	6807.57	106.25	-874.38	880.78	880.81	276.93	.63
6972.00	.88	252.60	6869.56	105.80	-875.13	881.46	881.50	276.89	.70
7034.00	.79	244.51	6931.56	105.47	-875.97	882.25	882.29	276.87	.24
7096.00	.83	229.88	6993.55	105.00	-876.69	882.92	882.96	276.83	.34
7139.00	1.41	233.00	7036.54	104.48	-877.36	883.50	883.55	276.79	1.36
Project to Bit									
7200.00	1.41	233.00	7097.52	103.58	-878.55	884.58	884.64	276.72	.00



Declination: 11.16
Grid: True

Job Number: UT131013
Company: Petroglyph
Lease/Well: Ute Tribal 01-13-E4
Location: Sec. 1, T5S, R4W
Rig Name: Aztec 673
State/Country: Utah / USA

